



OPERATING INSTRUCTIONS

M101B Rugged Tablet Computer

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Read Me First

Getting Started

Useful Information

Troubleshooting

Please read these instructions carefully before using this product, and save this manual for future use.

Chapter 1: Read Me First

Safety Information

Follow and adhere to all warnings and instructions in this manual. For your safety, please read all safety and operating instructions before using the product. Keep this manual for future reference.



Precaution on Battery Pack

Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example) Generation of heat, ignition or rupture may result

Do Not Disassemble, Modify, or Insert Sharp Objects Into the Battery Pack. Electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Short the Positive (+) and Negative (-) Terminals of the Battery. Generation of heat, ignition or rupture may result. When carrying or storing the device, do not place the battery pack together with articles that may contact electricity.

Do Not Apply Shocks to the Battery by Dropping It or Applying Strong Pressure to It. Electrolyte leakage, generation of heat, ignition or rupture of battery may occur.

Do Not Charge the Battery Other Than Methods Those Specified In This Manual. If the battery is not charged using one of the specified methods, electrolyte leakage, generation of heat, ignition or rupture may result.

When the Battery Pack Has Deteriorated, Replace It with a New Battery. Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.

Do Not Use the Battery Pack With Any Other Products. The battery pack is rechargeable and is only designed for this specific product. If it is used with a product other than the specified product, electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Use This Product With Battery Other Than the One Specified.



General Product Safety

This product should not be used near water such as bathtubs, sinks, swimming pools, wet basement, etc.

Do not block any ventilation openings. Do not place the product against a wall or in an enclosed space as doing so might impede the flow of cooling air.

Do not place the product near any heat sources such as radiators, warm air intakes, stoves or other heat-generating devices (including amplifiers or other heat producing equipment).

Do not disregard the safety that a polarized or grounded connection can provide. A polarized connection consists of two plugs, one of which is larger than the other. A grounded connection has two blades and a third one that is grounded. If the main plug provided cannot be inserted into your outlet, consult an electrician to replace your obsolete outlet.

Protect the power cord from being crushed or pinched, particularly in the area of the plugs, any receptacles used, and the point of exit from the apparatus. Do not break off the ground pin of the power cord.

Use only accessories specified by the manufacturer.

Use only with its transport carriage, stand, tripod, console or table specified by the manufacturer or sold with the product. When using a carriage, move the carriage assembly with the product carefully to avoid damage from falling over.

Unplug this apparatus during lightning storms or when it is not being used for long periods.

Refer all servicing to qualified service personnel. A technical intervention is required when the apparatus has been damaged in any way, for example if the power cord or plug is damaged, liquid has been spilled or objects have fallen inside the unit, if the product has been exposed to rain or moisture, if it does not operate normally or if it has been dropped.

To maximize the life of the backlight in the display, allow backlight to automatically turn off as a result of power management. Avoid using a screen saver or other software that prevents the power management from working.



Cleaning Guideline

Use a soft cloth moistened with water or a non-alkaline detergent to wipe the exterior of the product.

Gently wipe the display with a soft, lint-free cloth. Do not use alcohol or detergent on the product.

Read Me First

Handling and Maintenance

Follow and adhere to all warnings and instructions in this manual. For you're the longevity of the product usage, please read all operating instructions before using the product. Keep this manual for future reference.



General Guideline

Keep the product at least 13 cm (5 inches) away from electrical appliances that can generate a strong magnetic field such as TV, refrigerator, motor, or a large audio speaker.

Do not place heavy objects on top of the tablet computer as this may damage the display.

The screen surface can be easily scratched. Use with care. Do not use paper towels to clean the display but use the included cleaning cloth. Avoid touching it with a pen or pencil.



Touchscreen Guideline

Use your finger or the stylus on the display. Using sharp or metallic object may cause scratches and damage the display, thereby causing errors.

Use a soft cloth to remove dirt on the display. The touchscreen surface has a special protective coating that prevents dirt from sticking to it. Not using a soft cloth may cause damage to the special protective coating on the touchscreen surface. To clean off hard to remove dirt, blow some steam on the particular area and gently wipe away using a soft cloth.

Do not use excessive force on the display. Avoid placing objects on top of the display as this may cause the glass to break.

When there is a noticeable discrepancy in the operation of the touchscreen function (your touch does not correlate to the proper location on the screen), recalibrate the touchscreen display.

Chapter 2: Getting Started

Congratulations on purchasing this rugged Tablet Computer. The rugged design allows you to use it in harsh outdoor environments.

This chapter tells you step by step how to get the Tablet Computer up and running. You will find instructions for the following procedures:

- Unpacking
- Description of Parts
- First Time Operations
- Turning On/Off

Unpacking

Check and identify the supplied accessories:

Getting Started

- Tablet Computer



- Standard Battery



- Power Adapter



- Power Cord and Plugs

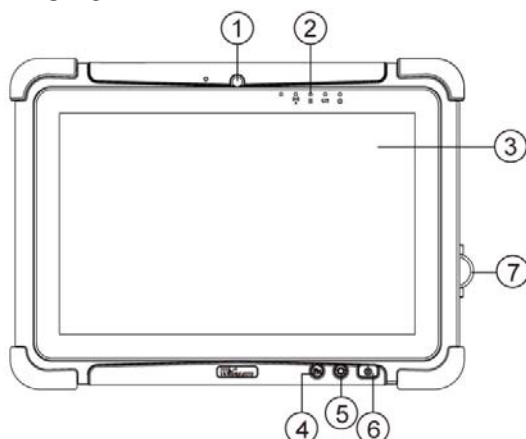


- Capacitive Touch Stylus

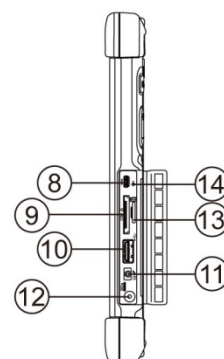


Description Of Parts

Front:

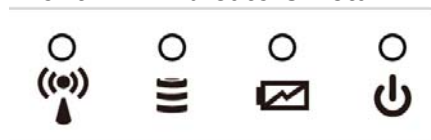


Right:



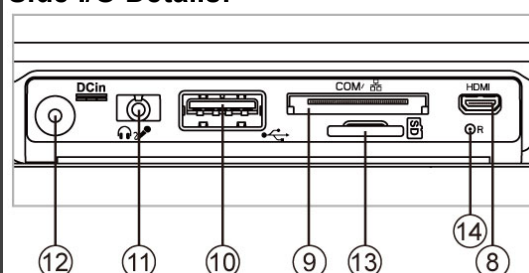
No	Item	Description
1	Front Camera	2 Megapixel Webcam
2	LED Indicators:	Show the current status of the Tablet Computer
	RF	 Green - WiFi/BT/3G/GPS ON No light - None of WiFi/BT/3G/GPS is ON
	HDD	Green - Harddrive Activity No light - Harddrive Idling
	Battery	 Orange – AC adapter is plugged in and charging Green – AC adapter is plugged in and battery is completely charged Solid Red - Low battery (<10%) Blinking Red – Battery is being hot swapped. Not lit – Battery is in use and more than 10%
	Power	 Blue – Tablet is ON No light – Tablet is OFF
3	Touch Screen	Displays and act as one of the inputs for the Tablet Computer
4	Fn1 Button	Programmable function key configured by HotTab Utility. Default: Web Browser
5	Menu Button	HotTab Quick Access
6	Power Button	Turns on/off tablet

Front LED Indicators Detail:

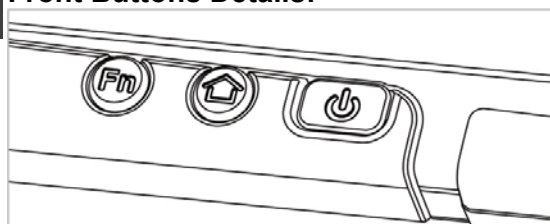


No	Item	Description
7	I/O Cover	Protects I/O ports
8	Micro HDMI	HDMI output to external display
9	LAN/RS232	Adapter port for LAN/RS232 connector
10	USB 3.0	High speed USB port connects to USB devices, such as USB flash drive, mouse, keyboard, printer, etc.
11	Mic In/Line Out	Headset or headphone can be connected (Mic is only supported with 3.5mm 4-pin headset)
12	Power Jack	DC-IN power input jack
13	MicroSD Card Reader	Memory card reader port for MicroSD Card
14	Reset Button	Hardware reset button

Side I/O Details:

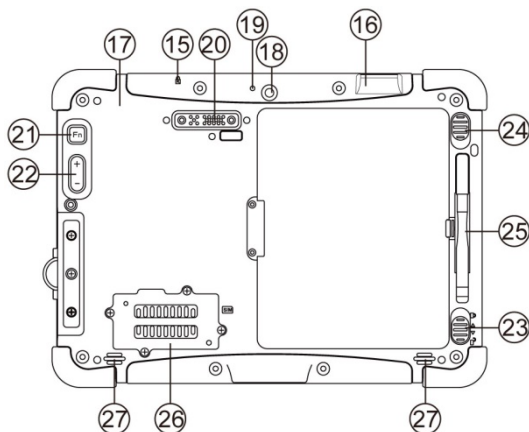


Front Buttons Details:

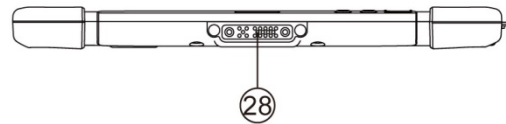


Getting Started

Rear:



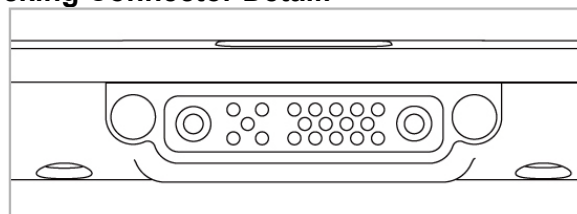
Bottom:



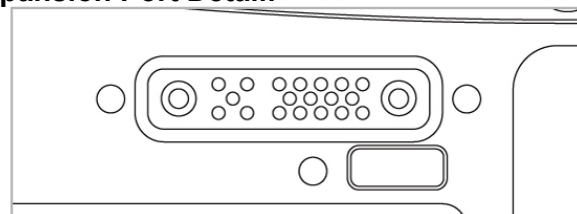
No	Item	Description
15	Kensington Lock Port	Provides lock access for Kensington Lock.
16	Optional Barcode	Barcode Scanner for reading of 1D/2D barcode.
17	Optional RFID	RFID reader for reading of RFID tags.
18	Rear Camera	5MP Autofocus Camera. Captures photos and videos.
19	Camera Flash	LED camera flash to provide flash lighting when use with camera.
20	Expansion Port	Provides optional connectivity to custom modules for special application (USB2.0 x 1 , RS232 x 1).
21	Fn2 Button	Programmable function key configured by HotTab Utility. Default: Camera
22	Volume Buttons	Volume Control. (+) Raises volume, (-) Lowers volume.
23	Battery Lock Latch	Latch to lock the battery in place once battery is inserted. Not spring-loaded.
24	Battery Release Slider	Spring-loaded slider that latches the battery in.
25	Touch Pen Slot	Pen holder slot to store touch pen
26	3G Module/SIM card slot	Service window to insert Micro SIM card. Also provide access to 3G Module.
27	Speakers	Emits sounds.

No	Item	Description
28	Docking Connector	Port to docking solutions such as vehicle docking to provide power and external antenna

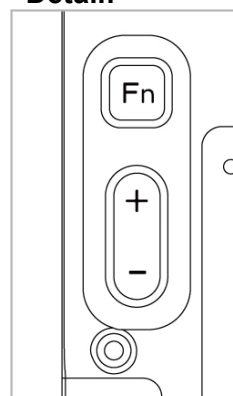
Docking Connector Detail:



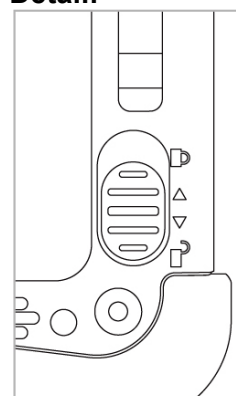
Expansion Port Detail:



Rear Buttons Detail:



Battery Lock Latch Detail:



Combination Keys (Keyboard Key Emulation)

For the physical buttons on the M101B tablet computer, in addition to their dedicated functions detailed in the previous section, they can also be used to emulate commonly used keyboard key strokes. Under different scenario, a single physical button or a combination of physical buttons provide different keyboard key strokes, which are specified below:

Under POST (before Windows boots up):

Buttons	Keystroke
Menu	F7
Fn1	Recovery Menu
Fn2	ESC
Volume Up	Up
Volume Down	Down
Menu + Fn1	Enter
Menu + Volume Up	Right
Menu + Volume Down	Left

Under Windows:

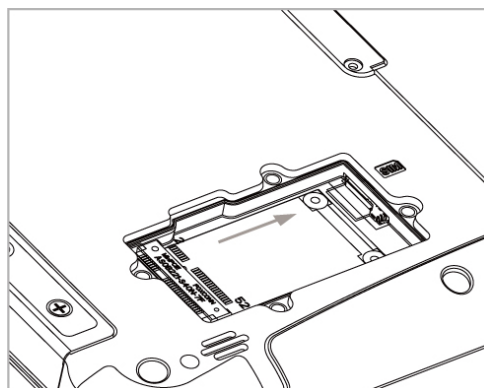
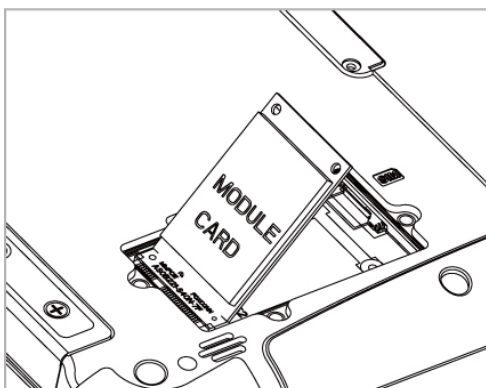
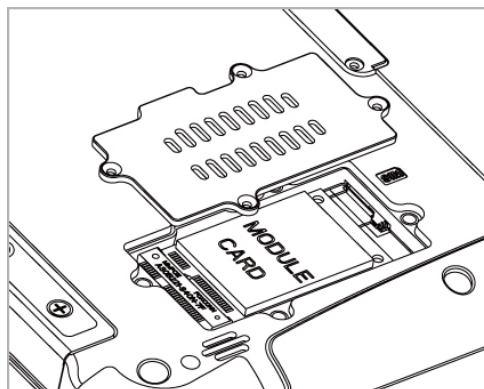
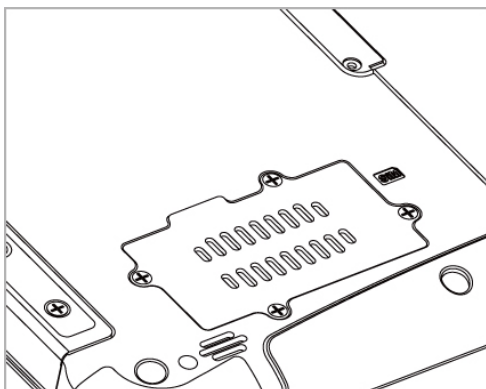
Buttons	Keystroke
Volume Up + Volume Down	Ctrl + Alt + Del

First-time Operation

Insert SIM card (For Optional 3G/LTE equipped device)

The Tablet Computer supports data connection using 3G/LTE SIM cards and fits Micro-SIM card. (Note: 3G/LTE feature is optional). Perform the following to install the SIM card to your Tablet Computer:

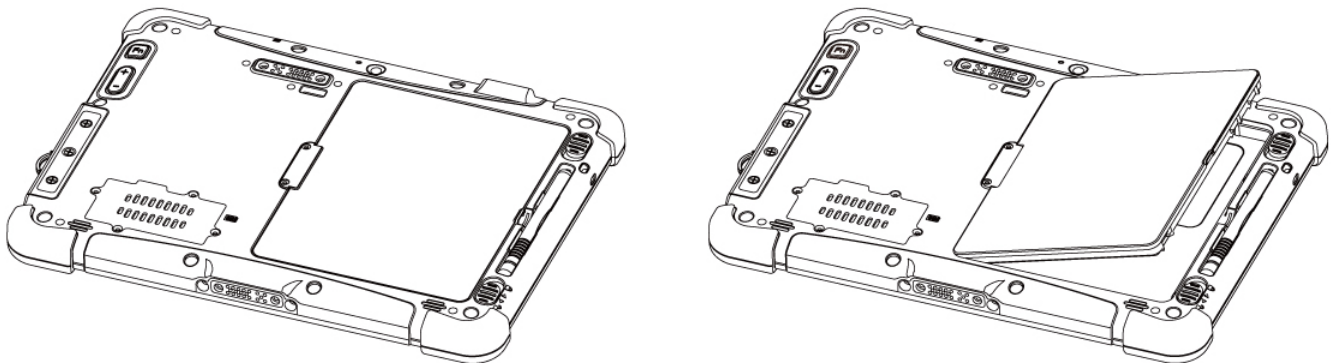
1. Remove the service window in the rear by unscrewing four screws.
2. Remove the screw that is securing the 3G/LTE module.
3. Carefully lift the 3G wireless module up, and be cautious not to damage the connected cable.
4. Make sure the SIM card IC contact patch is faced down, notch is in the direction of insertion (towards right).
5. Insert the 3G SIM card into the slot located near the right side of the service window.
6. Reposition the removed 3G/LTE module screw to secure the 3G/LTE module.
7. Reposition the removed service window screw to secure the service window.



Inserting Battery Pack

To insert the included standard battery pack into the Tablet Computer:

1. Disconnect any cords connected to the tablet computer.
2. Turn the tablet computer over, back facing up.
3. Locate the Battery Lock Latch and push it to the “Unlocked” position.
4. Locate the Battery Release Slider that is spring-loaded. Pull back and hold.
5. Insert the battery on the connector-pins side first, and then lower the battery into the battery compartment. Continue to hold the Battery Release Slider before battery is fully inserted.
6. Make sure the battery is completely lowered into the compartment before letting go the Battery Release Slider. Battery will be flat against the housing once fully inserted.



Removing the Battery Pack

1. Shut down the tablet computer (or put it to sleep). Disconnect any cords connected to the computer.
2. Turn the tablet computer over, back facing up.
3. Locate the Battery Lock Latch and push it to the “Unlocked” position.
4. Locate the Battery Release Slider that is spring-loaded. Pull back and hold.
5. Lift the battery out using the opening on side of battery compartment.

Connecting to Power Supply

The Tablet Computer operates either on external AC power or internal battery power. It is recommended to use AC power when you start up the Tablet Computer for the first time.

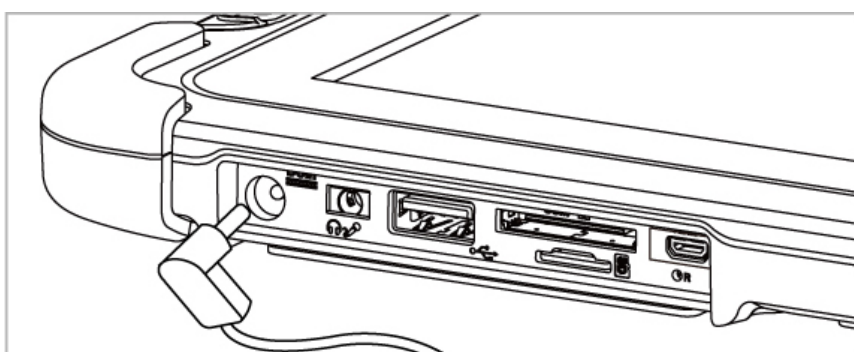
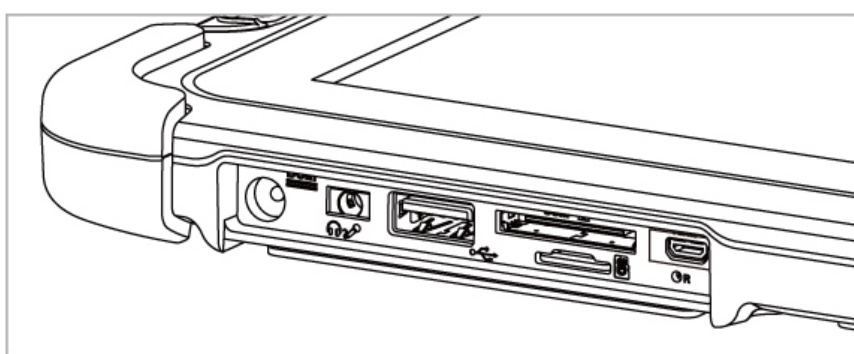


Caution

Use only the AC adapter included with your Tablet Computer. Using other AC adapters may damage the Tablet Computer and the Battery.

Perform the following to connect the Tablet computer to AC Power:

1. On the side of the Tablet computer, lift the I/O protective cover by pulling on the latch
2. Plug the DC cord of the AC adapter into the Power Jack of the tablet computer.
3. Plug the AC power cord into the AC adapter.
4. Finally, Plug the AC power cord into the electrical outlet.



When the AC Adapter is connected, the battery pack starts charging. The battery LED indicator on the tablet computer would show different states. Please refer to description of LED indicator on Description of Parts.

Turning On / Off

Turning On

Press and hold the power switch for 3 seconds until the blue LED power indicator light lid up.

Note:

- Do not press the power switch repeatedly.
- Do not perform the following operations until the hard drive indicator turns off
 - o Connecting or disconnecting the AC adapter
 - o Pressing the power switch
 - o Touching the tablet buttons, screen, or external keyboard/mouse

Turning Off

Perform the following procedure to shutdown the Tablet Computer:

1. Make sure you have closed any programs that are open on the Desktop. Start Screen apps don't need to be closed.
2. Open the Charms Bar by swiping your finger from the far right of the screen towards the middle of the screen.
3. Tab on the **Settings** charm.
4. Tab on **Power**.
5. Tab on **Shut Down**.
6. Wait for Tablet Computer to power off.

Note:

- The computer will forcibly be turned off if the power switch is pressed and held for six seconds or longer.

Chapter 3: Setting up Windows for the First Time

This section details how to setup different version of the Windows that may be installed on the tablet for the first time.

Setting up Windows Embedded Standard 7 (WS7P)

During the setup process, you create a user name and password, verify the correct time and date, and then choose your Internet network.

Creating a user name and password

1. Create a User name. (This user name is for the administrator of the computer.)
2. Type the selected user name in the text box, and then click Next.
3. On the next screen, type the password in the text box, retype the password in the next box, and then click Next

License Agreement

The next screen requests confirmation that you accept the Software License Terms and the End User License Agreement.

Click both check boxes and then click Next.

Protecting your computer

The next screen displays options for protecting the security of your computer and for receiving Windows updates.

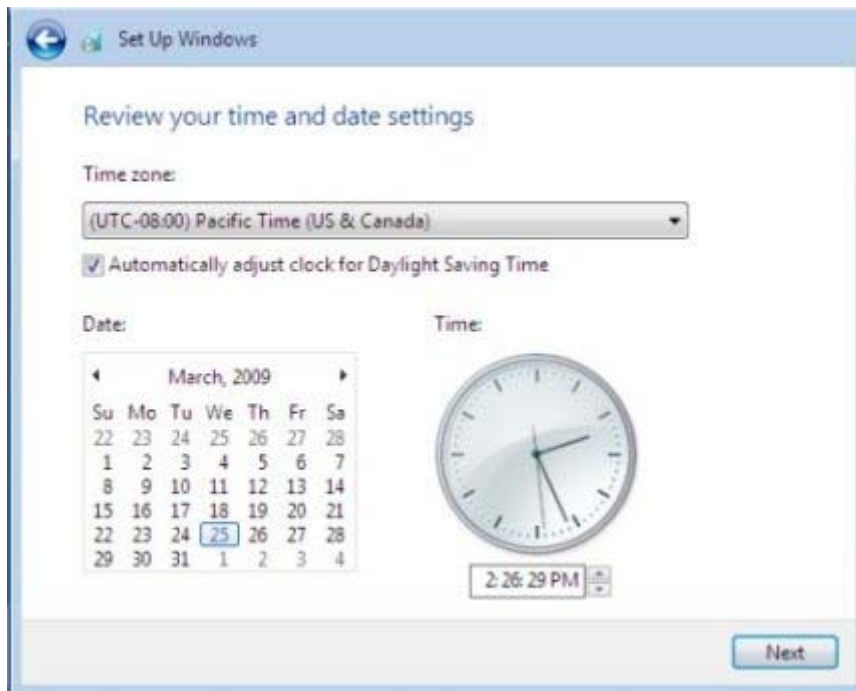


You have three choices: Use recommended settings (automatically downloads and installs all updates provided by Microsoft), Install important updates only (only downloads and installs critical updates), and Ask me later.

Click the option you wish to use.

Reviewing your time and date settings

The next screen contains options for changing the date and time settings.



Verify your time zone, time, and date. Make any necessary changes. Then click Next to continue.

Choosing your computer's network

If you have a home network, connect with an ethernet cable or activate the Wireless feature before continuing.

Use the following steps to setup your computer network:

1. Choose a wireless network from the list.
2. If you do not see your network, click Connect to a hidden wireless network , enter the network name, and select the security type and encryption type. Or, click Skip to continue without a wireless connection and set it up later.
3. From the next screen, select one of the following locations for your computer:
 - **Home network:** Select this location if all the computers on this network are at your home and you recognize them. This is a trusted home network.
 - **Work network:** Select this location if all the computers on this network are at your workplace and you recognize them. This is a trusted work network.
 - **Public network:** Select this location if you do not recognize all the computers on the network. (For example, you are in a coffee shop or airport, or you have mobile broadband.) This is a public network and is *not* trusted.



4. Click the location where you will most often use the computer.

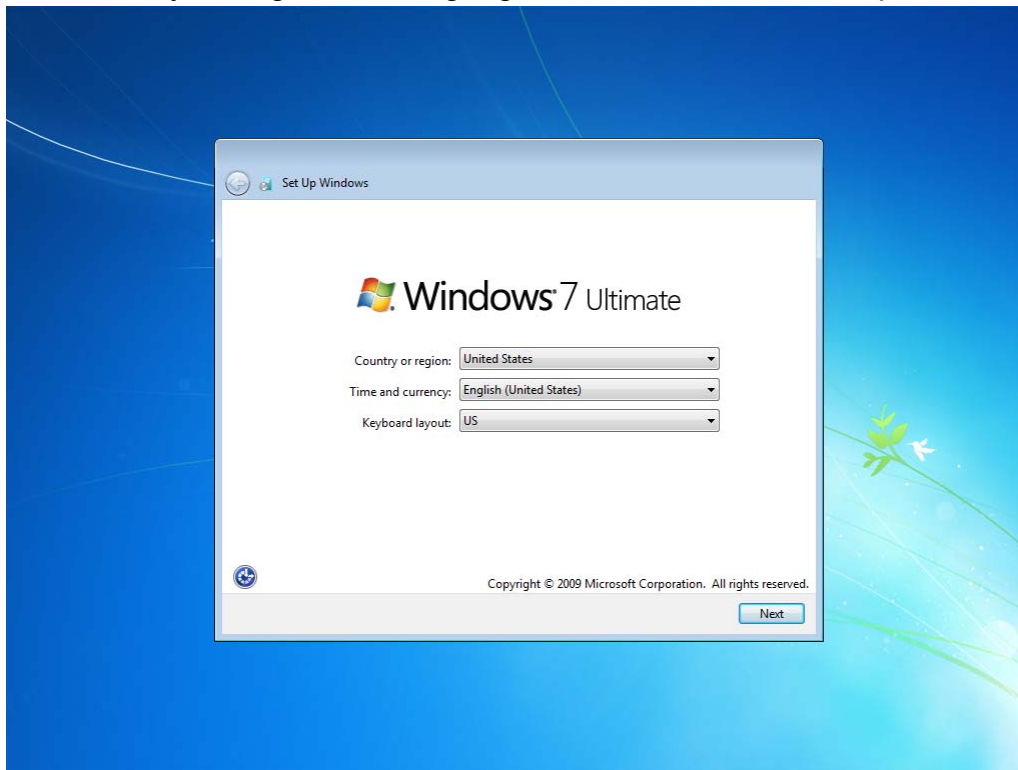
Completing Windows 7 Setup

After completing Windows 7 setup, a Preparing your desktop screen displays. Please allow several minutes for Windows to save your settings.

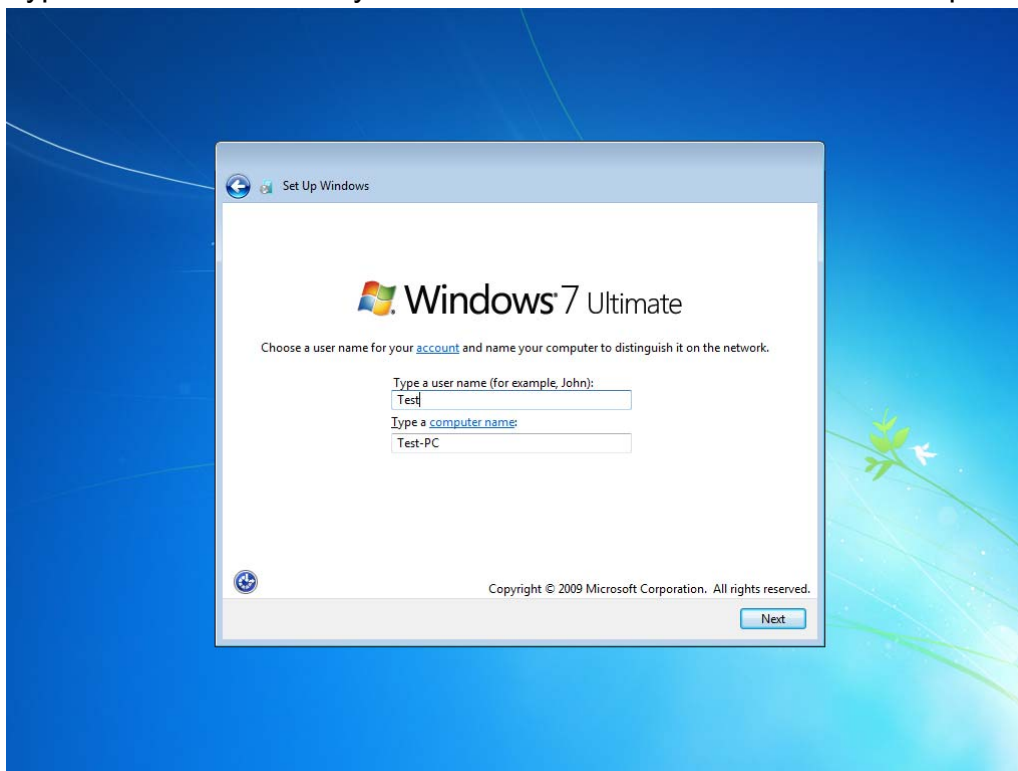
Setting up Windows 7 Ultimate/Professional

Follow the steps below to complete the setup process.

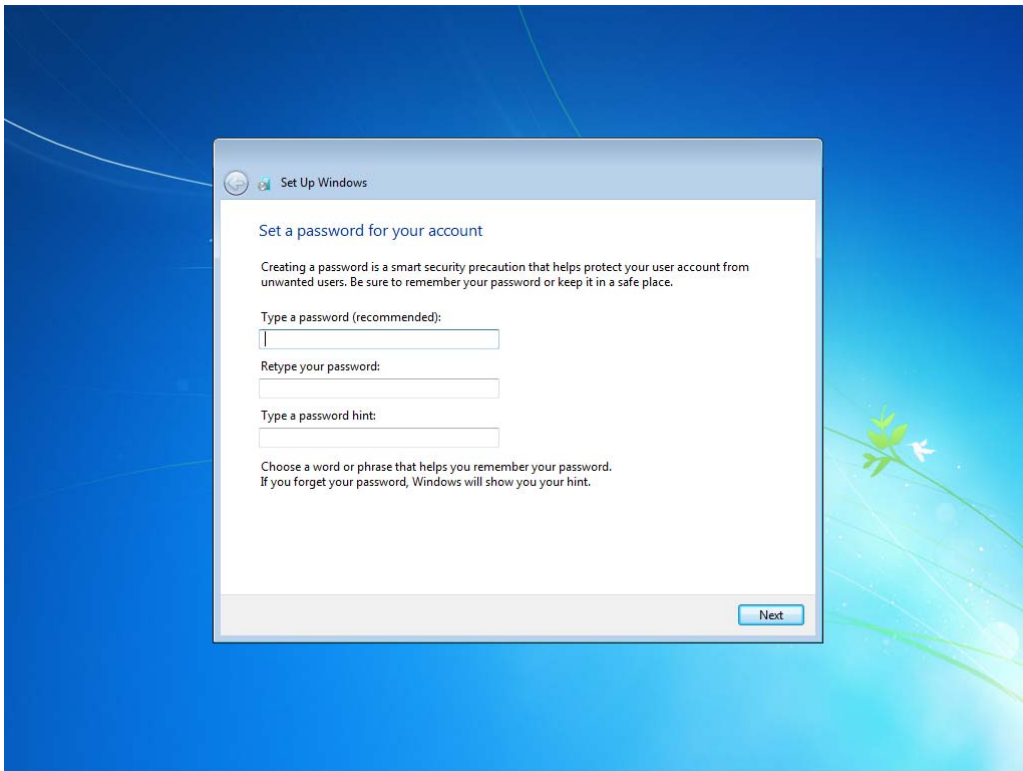
1. Press the power button to turn on the computer.
2. First select your region and language information, and then tap **Next**



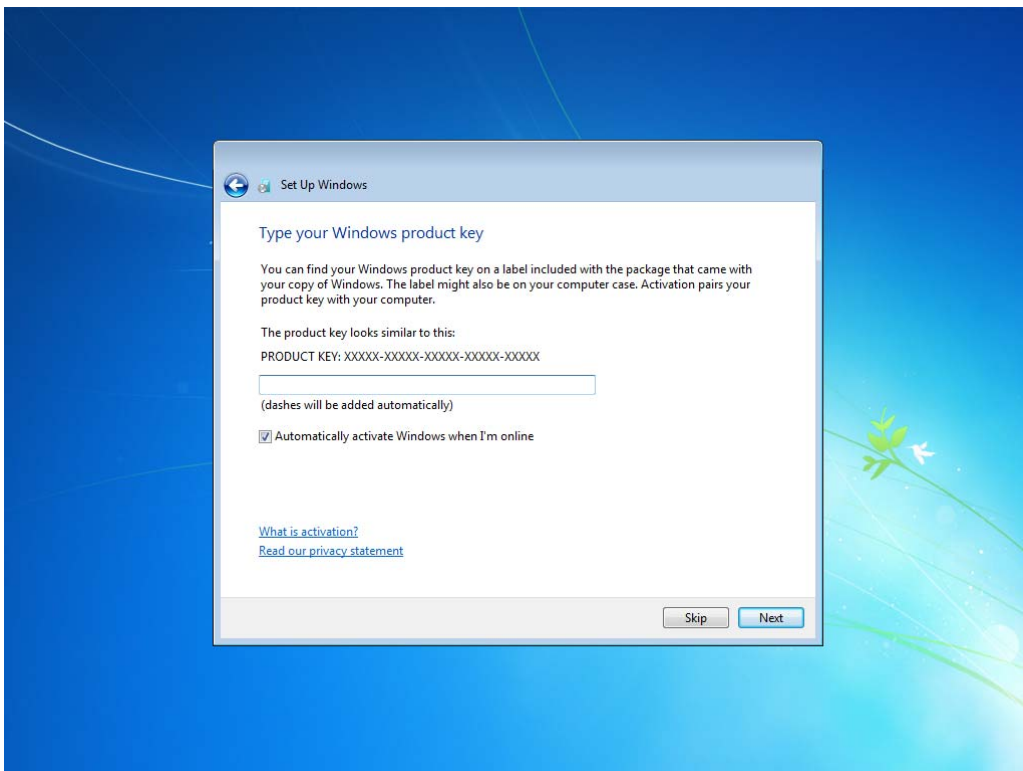
3. Type in a user name for your account to be used on this PC and tap **Next**



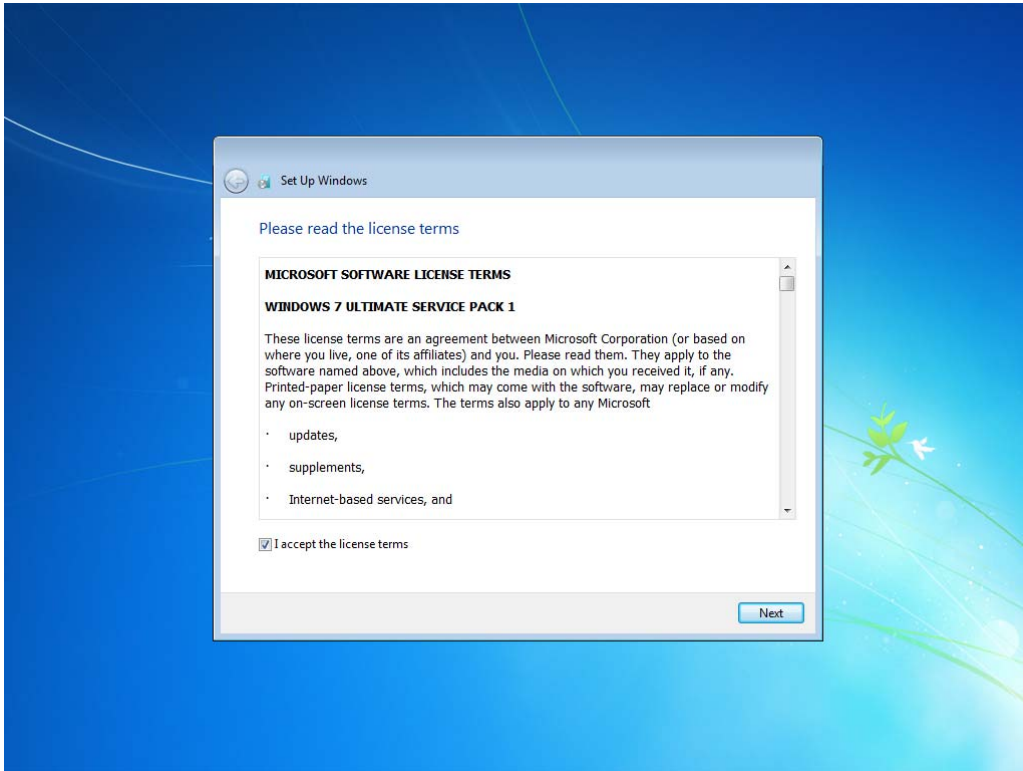
4. Type in a password for your account and tap **Next**



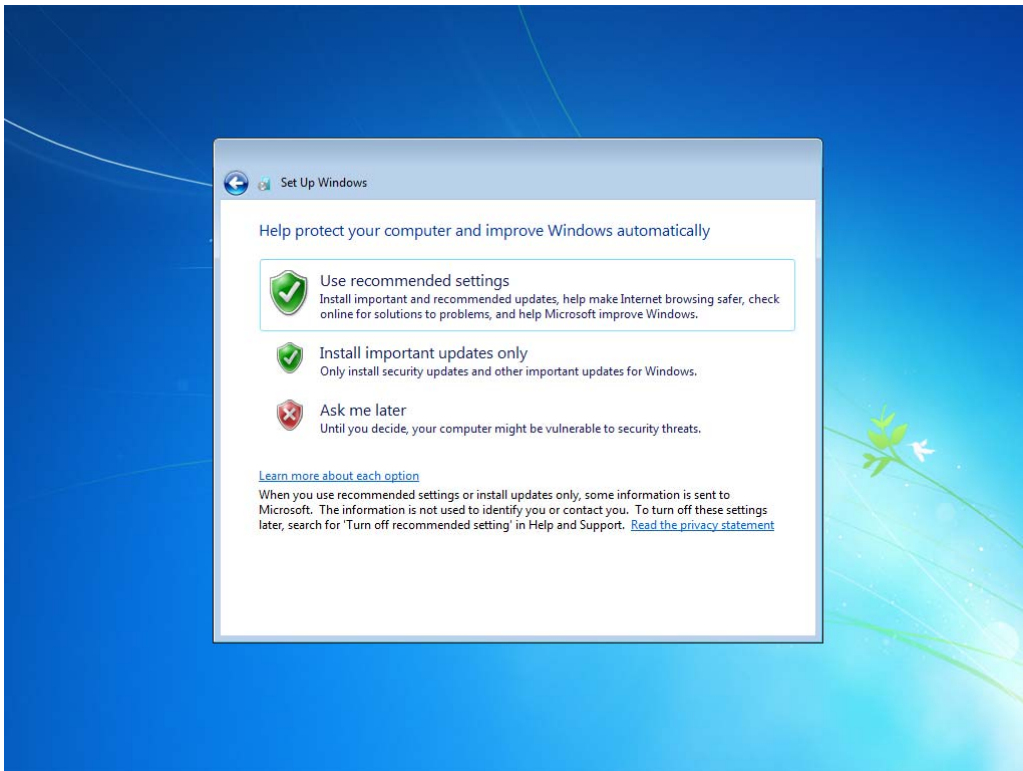
5. Now enter the product key that came with the computer and tap **Next**. For this version of the Windows, a product key entry is required when setting up the computer for the first time.



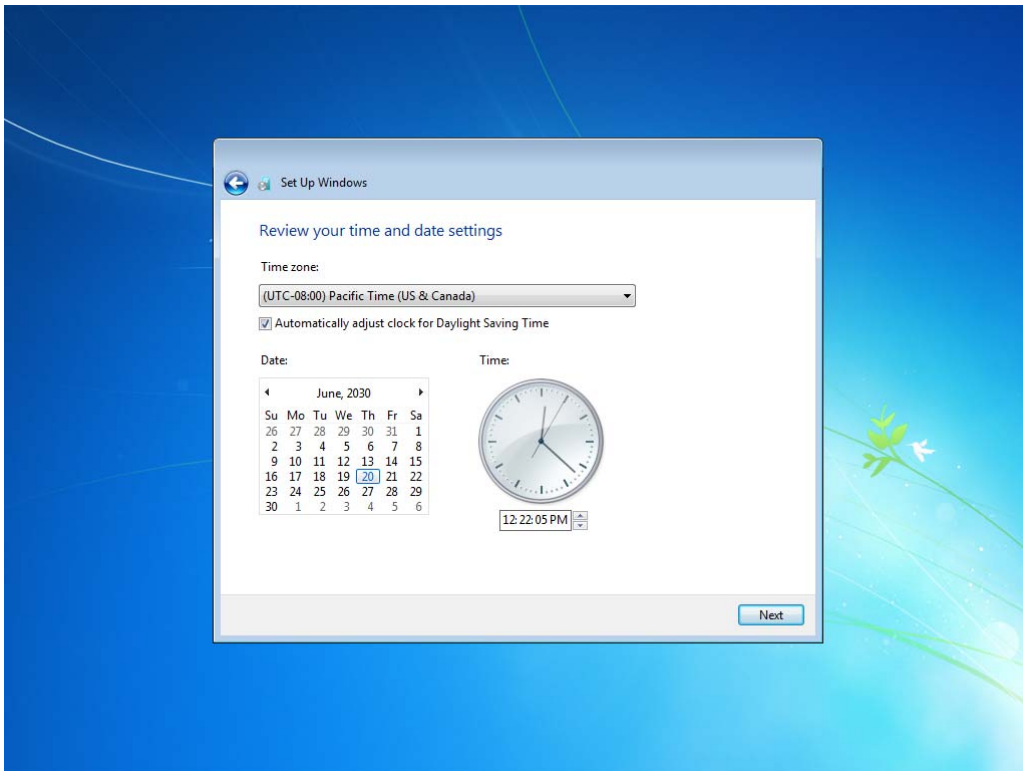
6. On the license terms screen, click on the **I accept the license terms** and tap **Next**



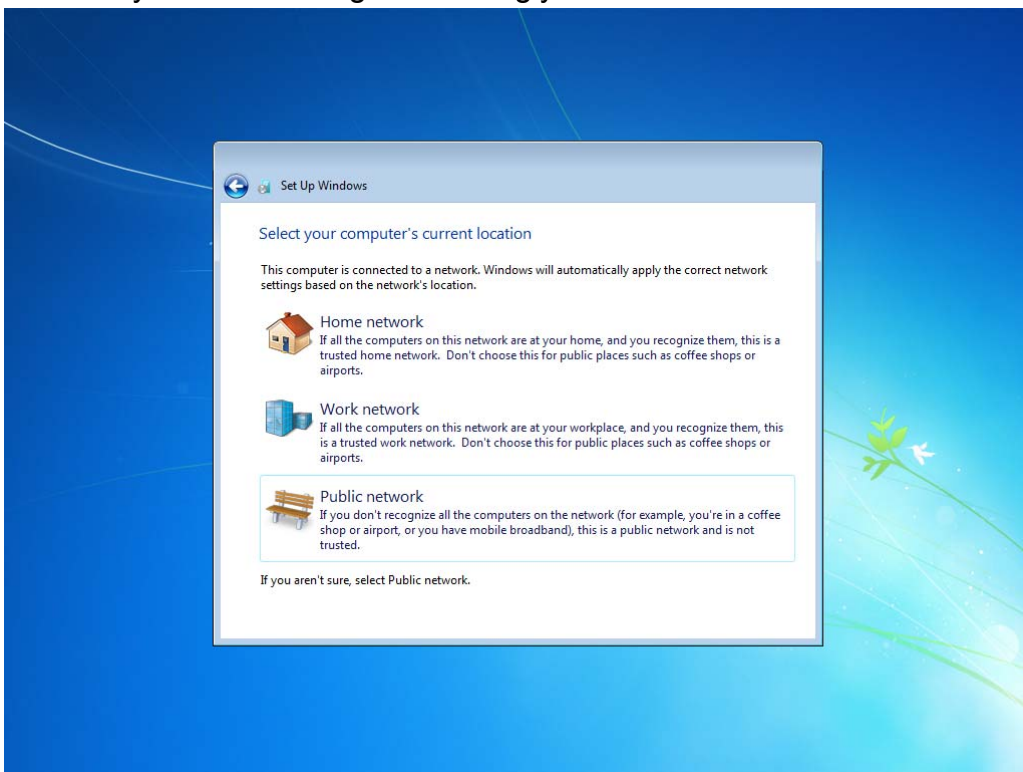
7. For the update option, choose Use recommended settings for Windows to install updates. If you do not wish Windows to do so, choose the other options accordingly.



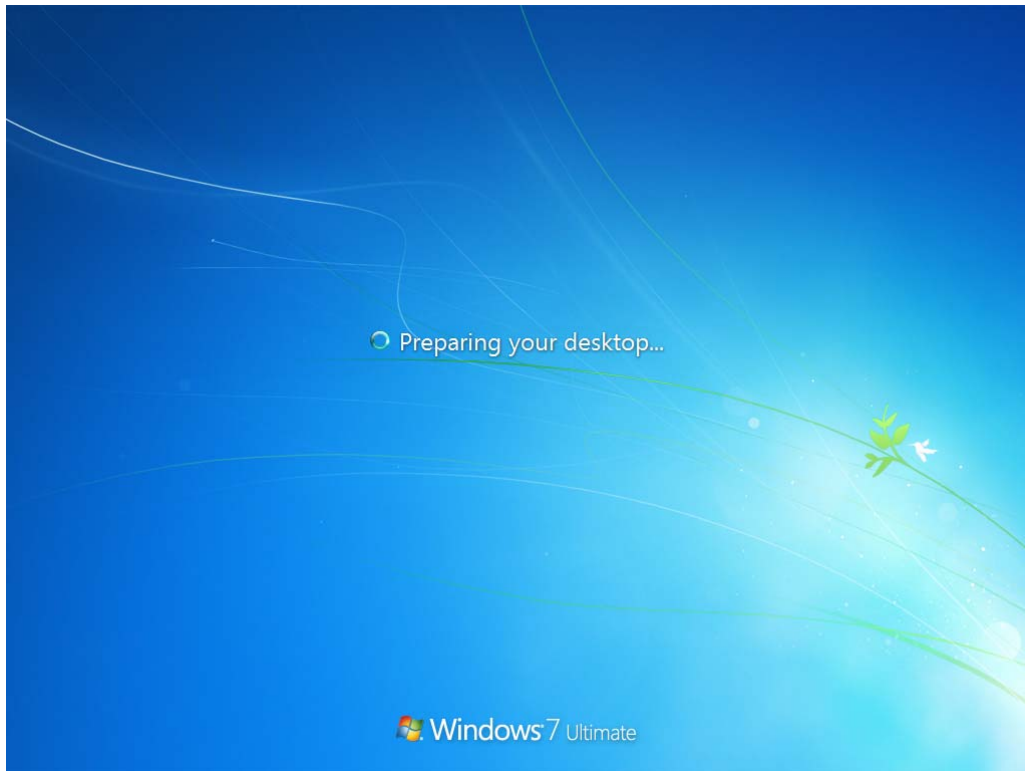
8. Next, review the date and time settings on the computer



9. Select the computer current location for network privacy setting. Choose the location below to your actual usage accordingly.



10. Allow time for windows to setup your desktop for the first time.

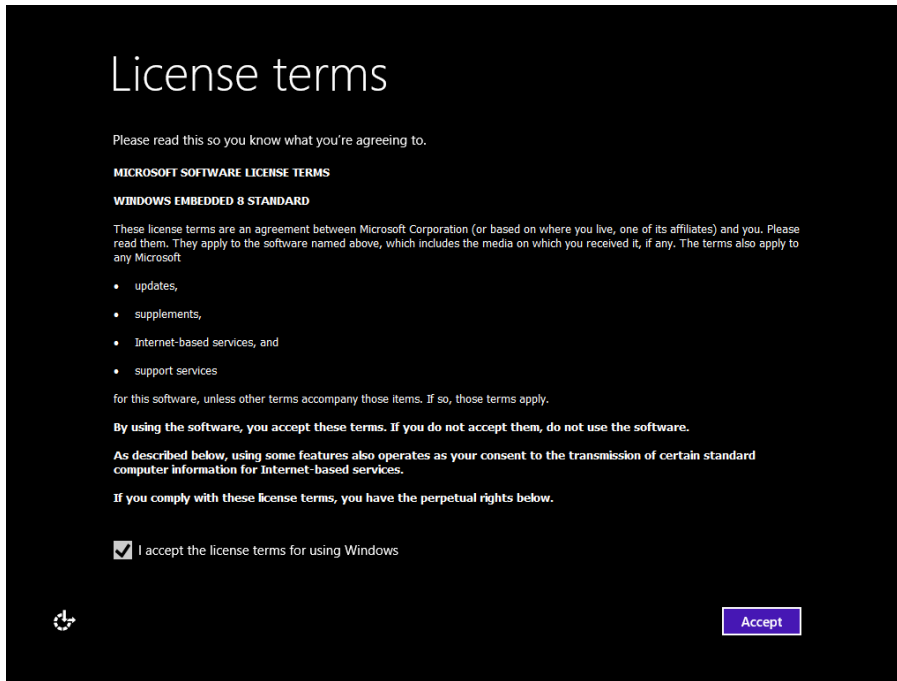


11. Now the computer is ready to be used.

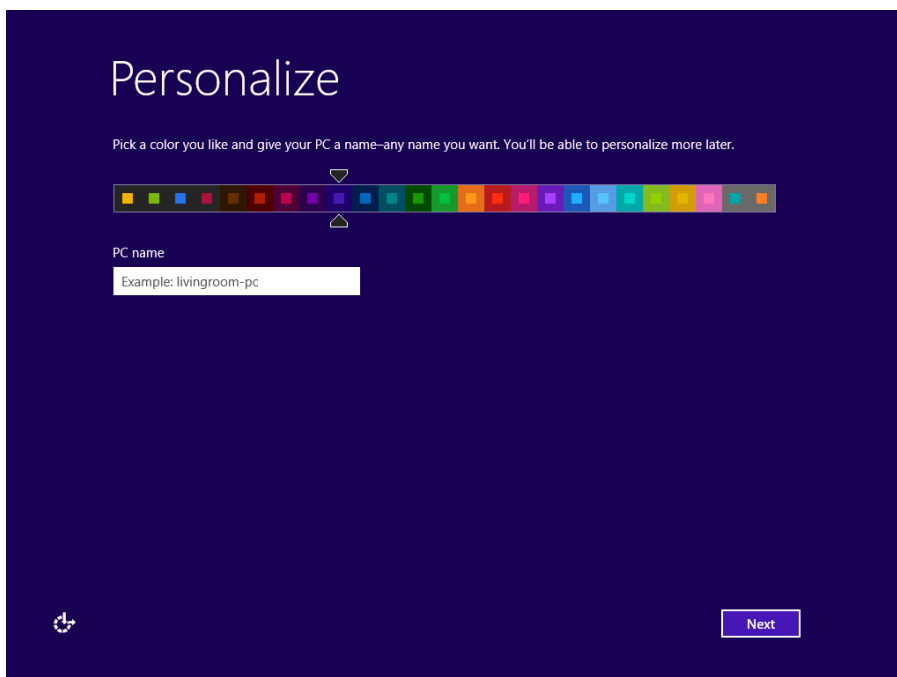
Setting up Windows Embedded 8 Standard

Follow the steps below to complete the setup process.

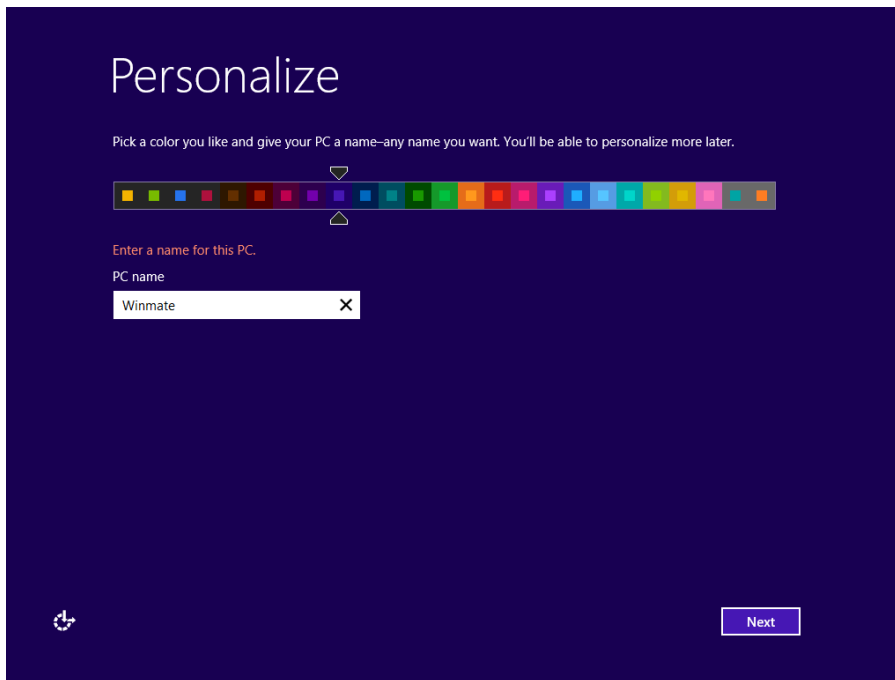
1. Press the power button to turn on the computer.
2. Check **I accept the license terms for using Windows** to accept the terms, and then click or tap **Accept**.



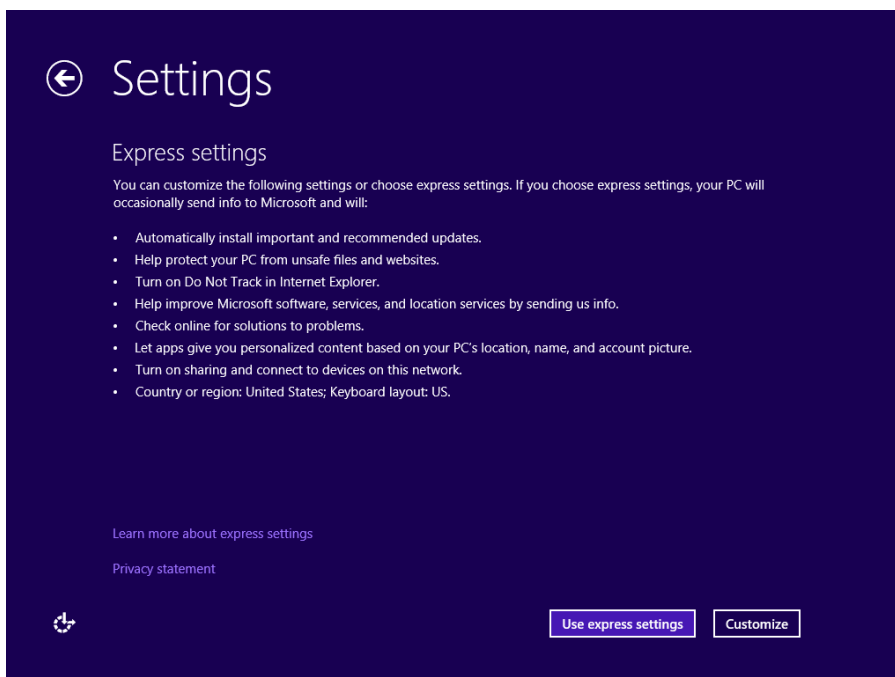
3. On the **Personalize** screen, choose a color you like – you can always change this later from the Start screen.



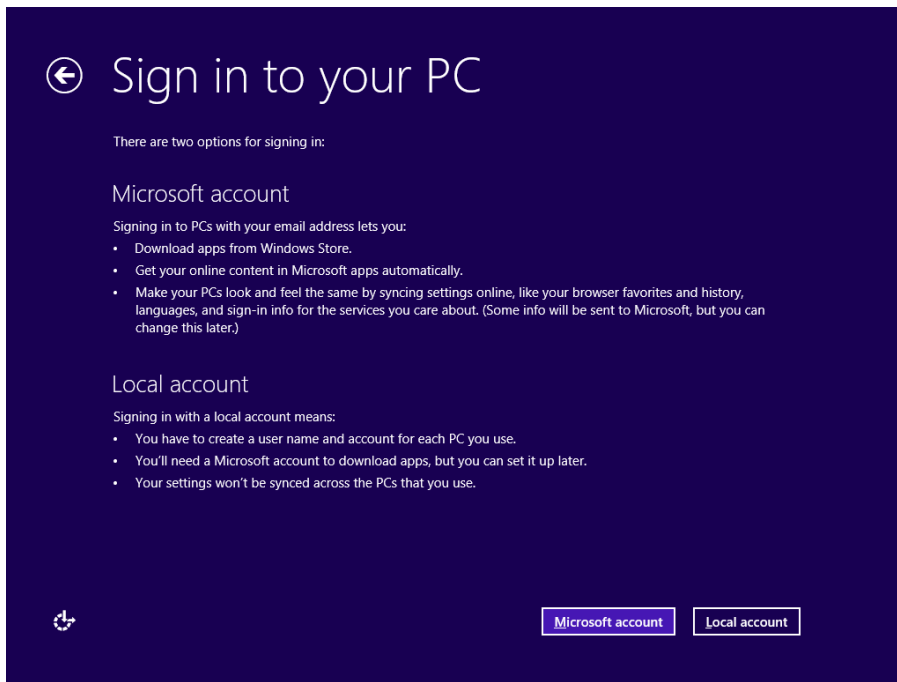
4. In the **PC name** field, type a name for your computer, and then click or tap **Next**.



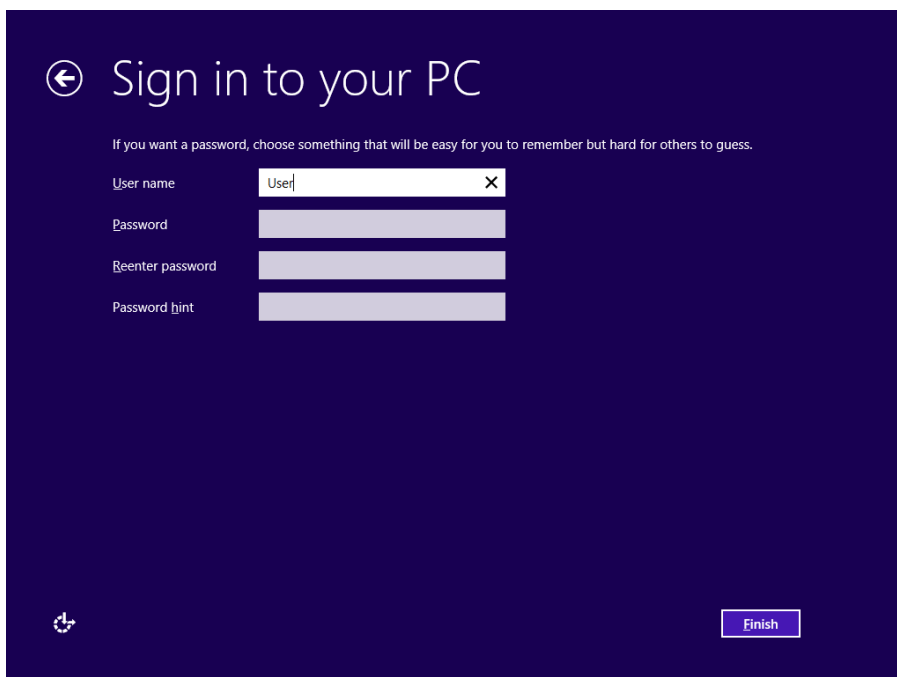
5. On the **Settings** page screen, choose **Use express settings** for the fastest setup.



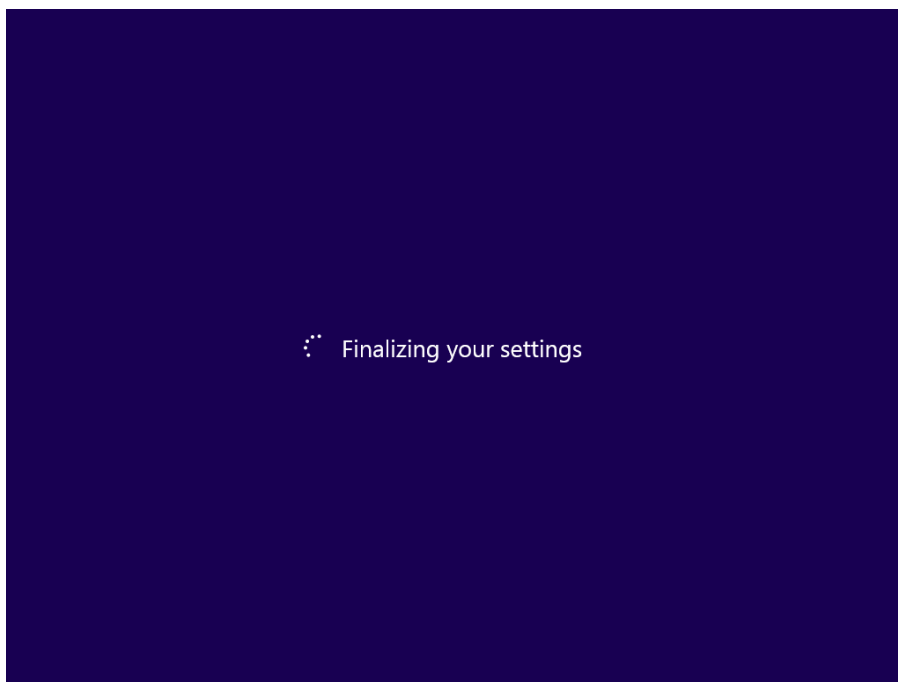
6. On the **Sign in to your PC** screen, choose to create a **Local account**.



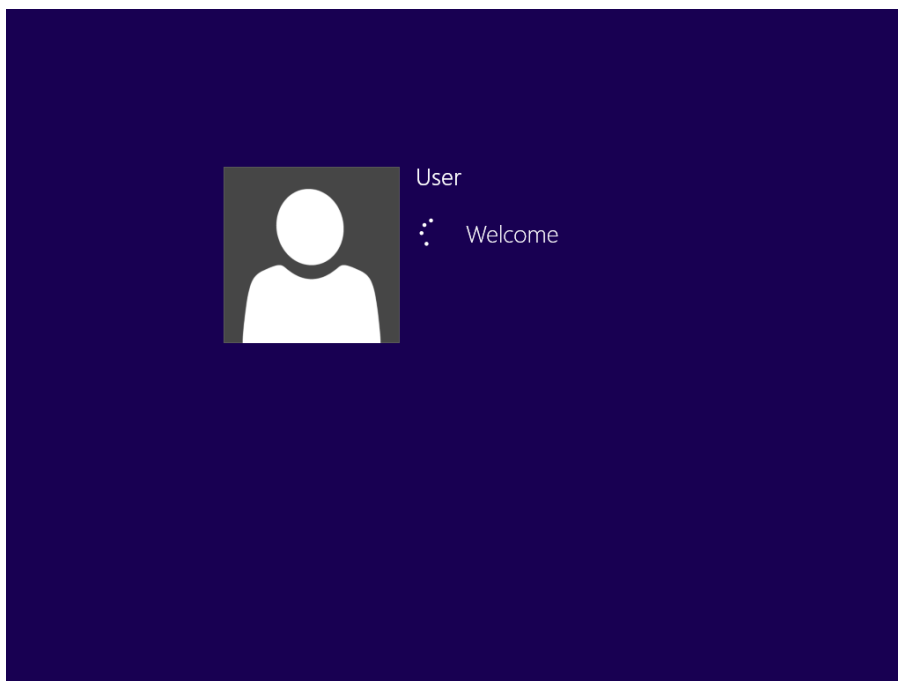
7. Type your username and password to create a local account, and then click or tap **Finish**.



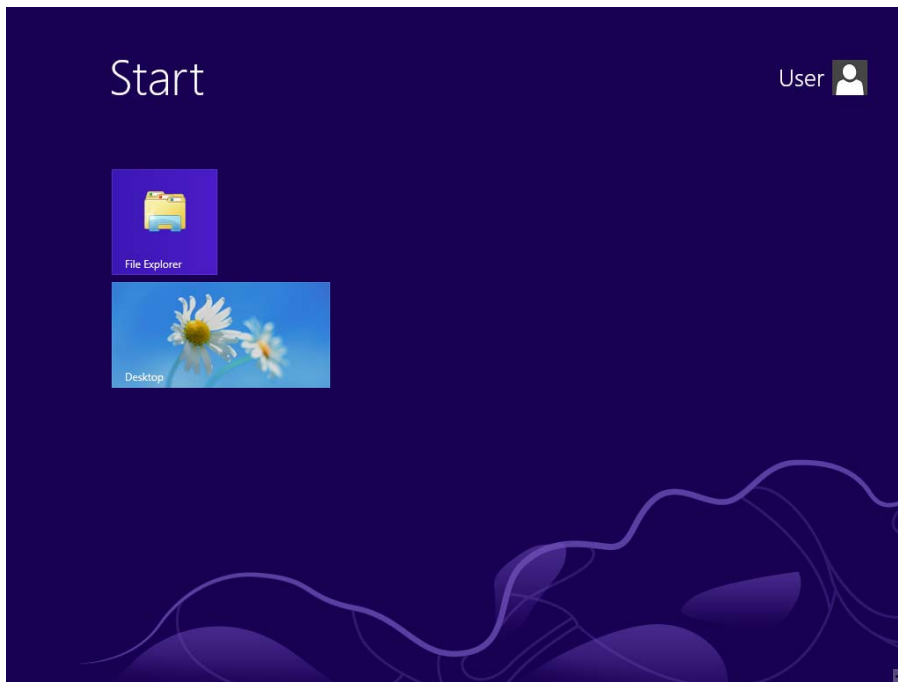
8. Windows may take some time to finalize your settings.



9. On the **Windows Sign-in** screen, enter the user name and password that you set up earlier, and then press **Enter** .



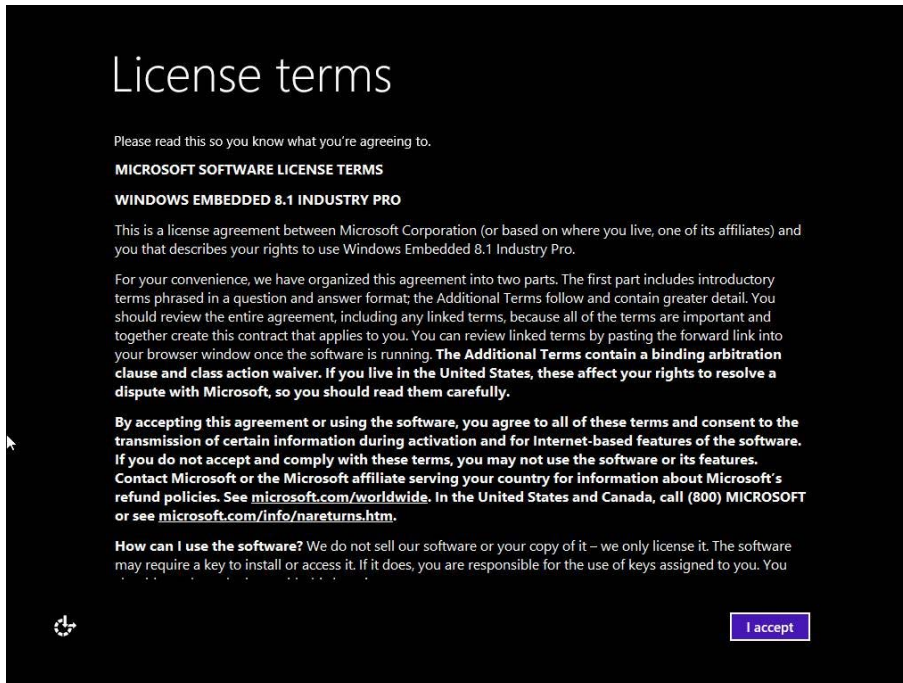
10. Once Windows finishes login, you are now ready to use the PC



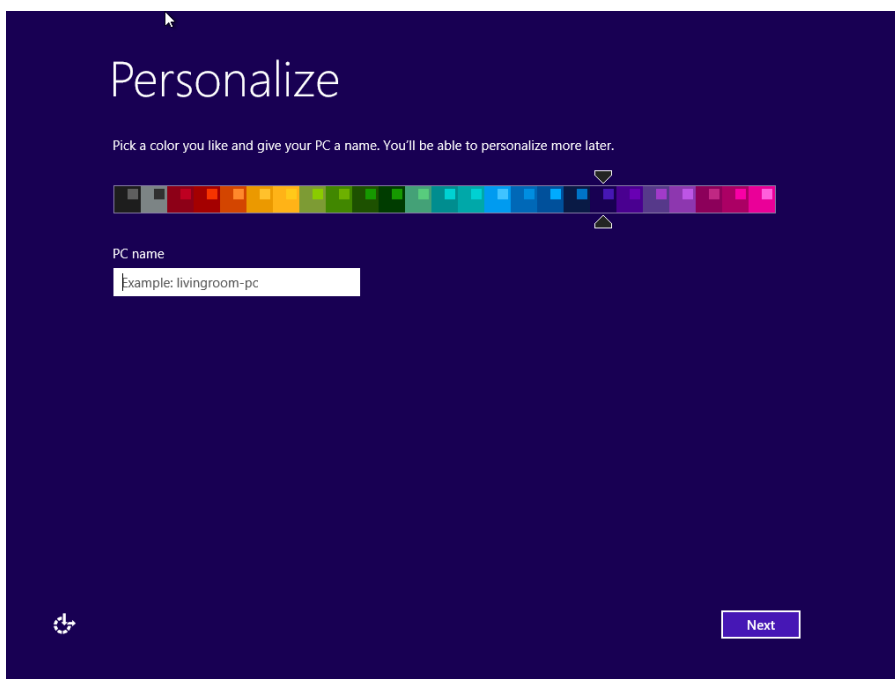
Setting up Windows Embedded 8.1 Industry Pro

Follow the steps below to complete the setup process.

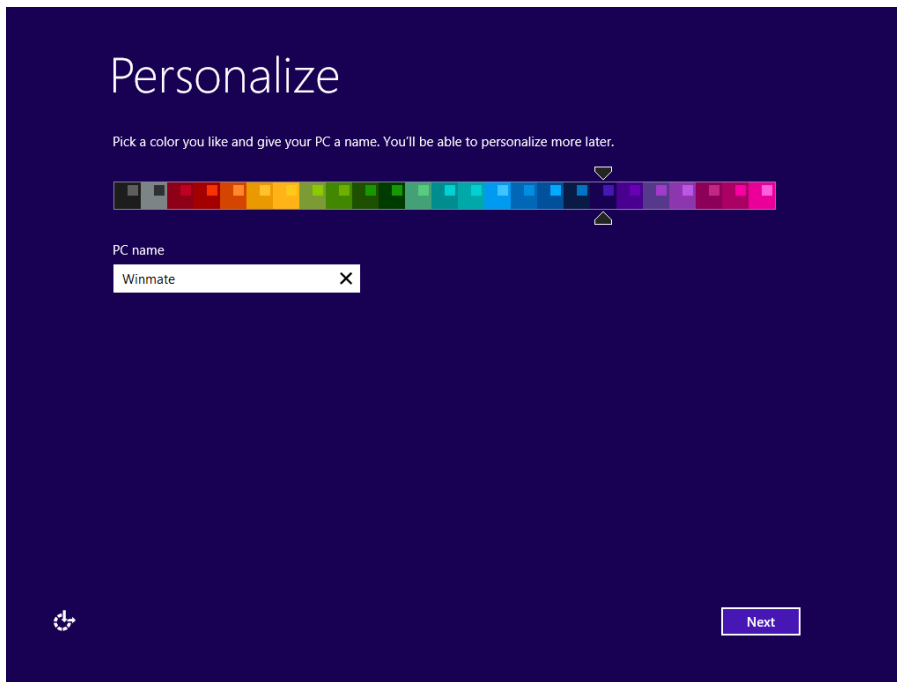
1. Press the power button to turn on the computer.
2. Check **I accept the license terms for using Windows** to accept the terms, and then click or tap **Accept**.



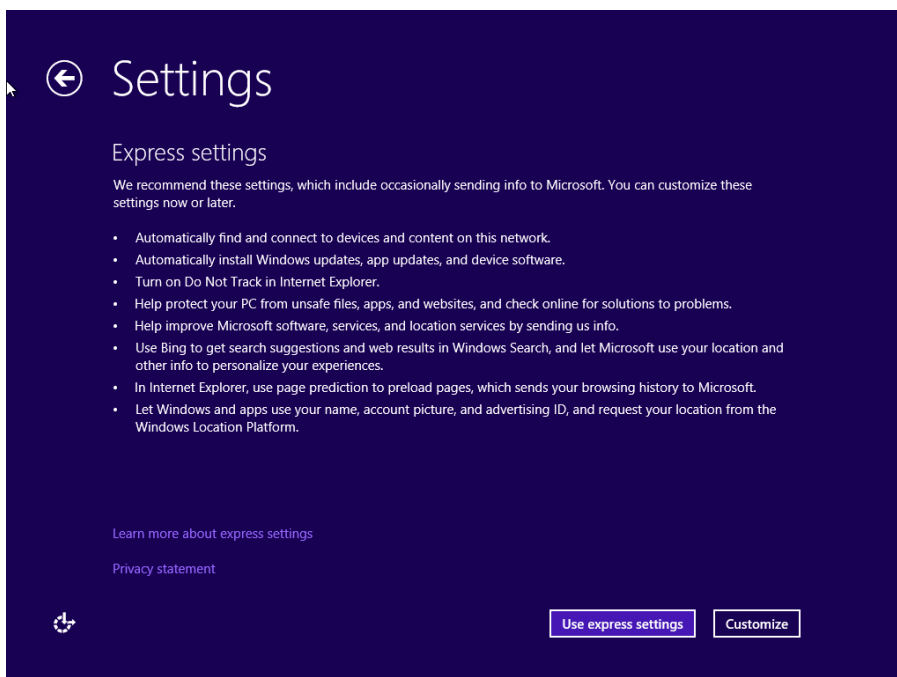
3. On the **Personalize** screen, choose a color you like – you can always change this later from the Start screen.



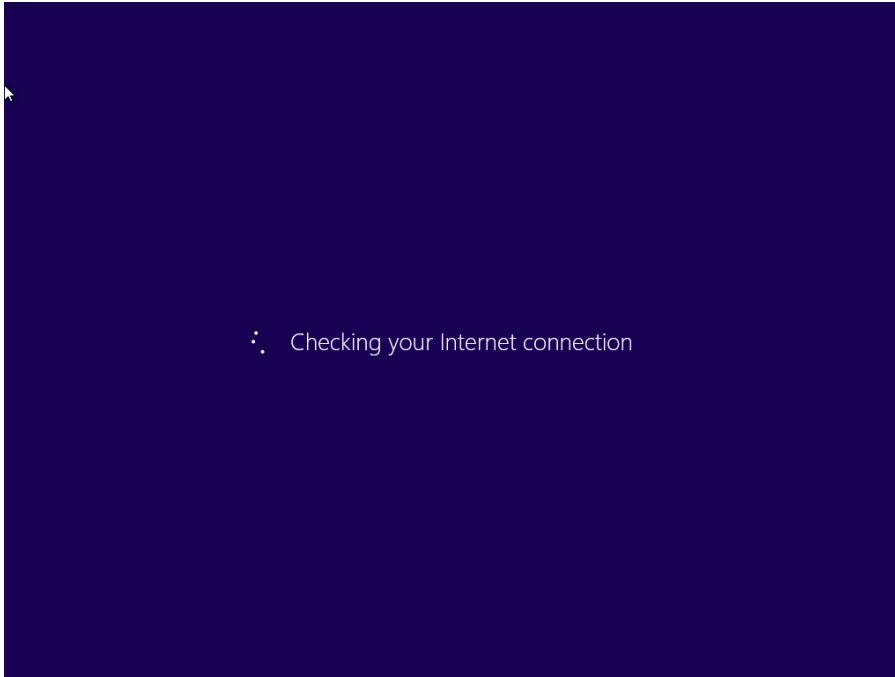
4. In the **PC name** field, type a name for your computer, and then click or tap **Next** .



5. On the **Settings** page screen, choose **Use express settings** for the fastest setup.



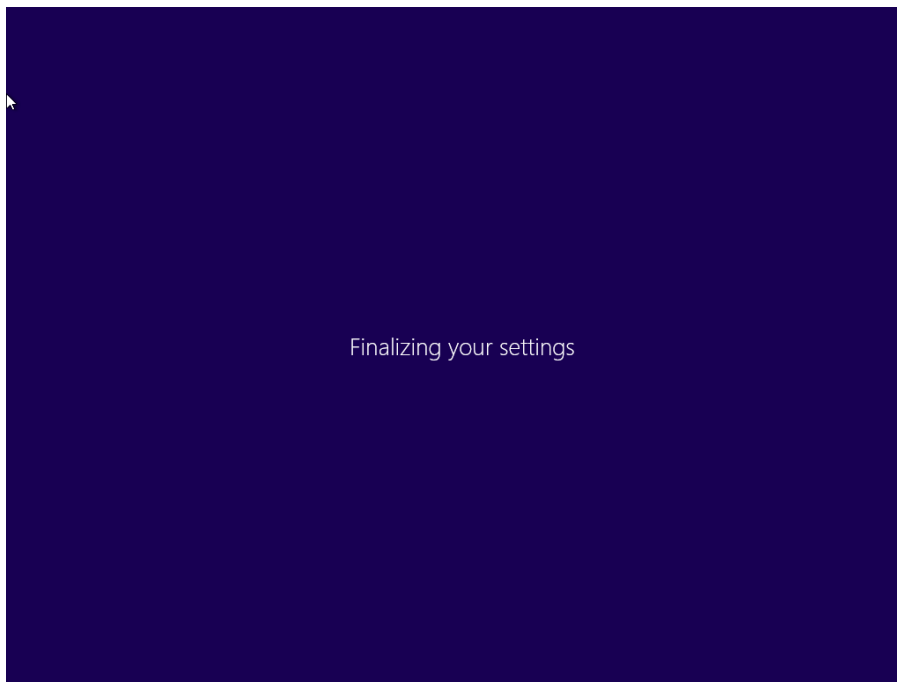
6. Windows will then try to connect to network. Ignore attempt to connect to internet as you do not need internet connection to finish setup your pc.



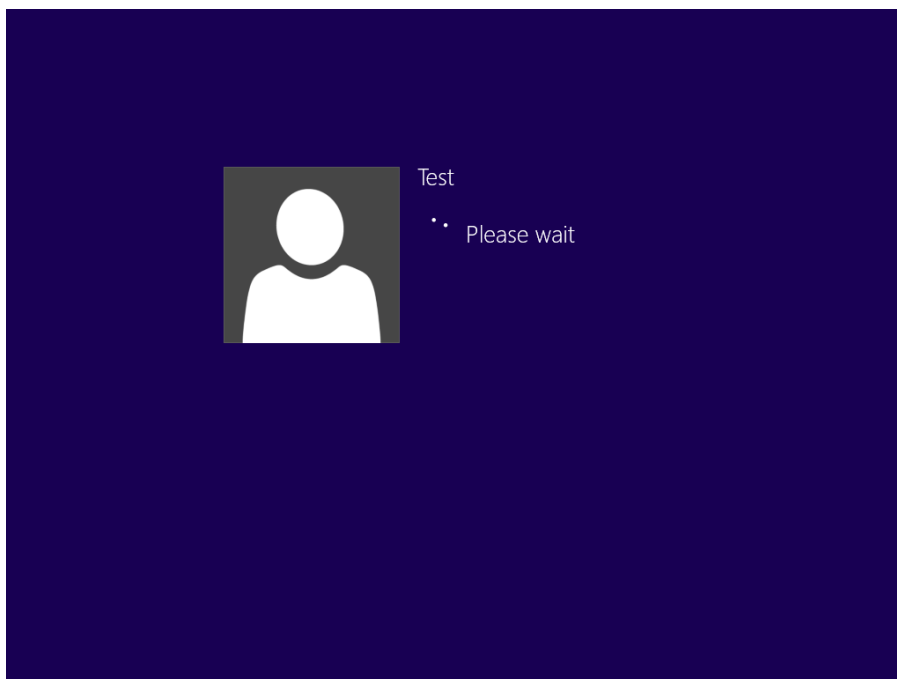
7. On **Your account** screen, type your username and password to create a local account, and then click or tap **Finish**.

A screenshot of the "Your account" screen in Windows setup. The title "Your account" is at the top left with a back arrow icon. Below it is a instruction: "If you want a password, choose something that will be easy for you to remember but hard for others to guess." There are four input fields: "User name" (with "Example: John" as placeholder), "Password", "Reenter password", and "Password hint". At the bottom right is a "Finish" button. At the bottom left is a small icon of a person.

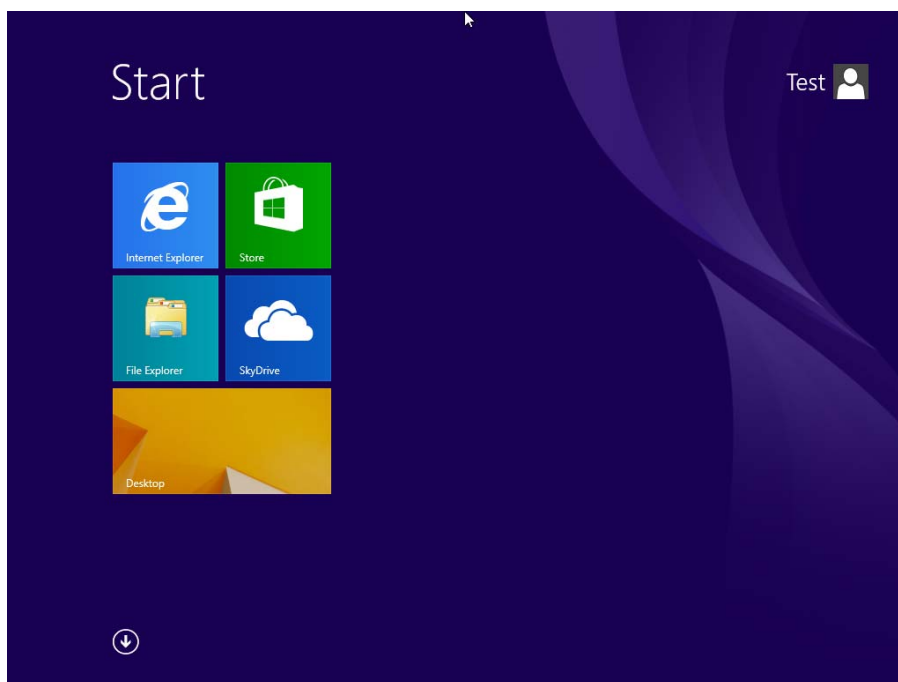
-
8. Windows may take some time to finalize your settings.



9. On the **Windows Sign-in** screen, enter the user name and password that you set up earlier, and then press **Enter**.



10. Once Windows finishes login, you are now ready to use the PC



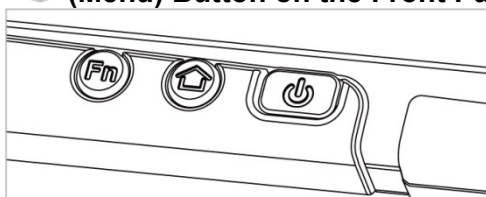
Chapter 4: Using the Tablet

HotTab Introduction

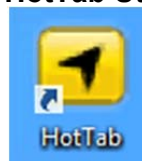
HotTab provides quick access to the tablet's functions and features, such as turning on/off Wifi, Bluetooth, GPS, programming function key, and changing power management.

As Windows starts up, HotTab starts and runs in the background. To display the HotTab control utility, press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.

 (Menu) Button on the Front Panel:



HotTab Utility Icon:



HotTab is designed to be a quick access utility, therefore the main user interface will be on the right side of the screen without blocking the content on screen. There are 4 main menu options: Short cut, Camera, Device and Settings. Operations and functions on each menu options is explained in detail in the coming section.

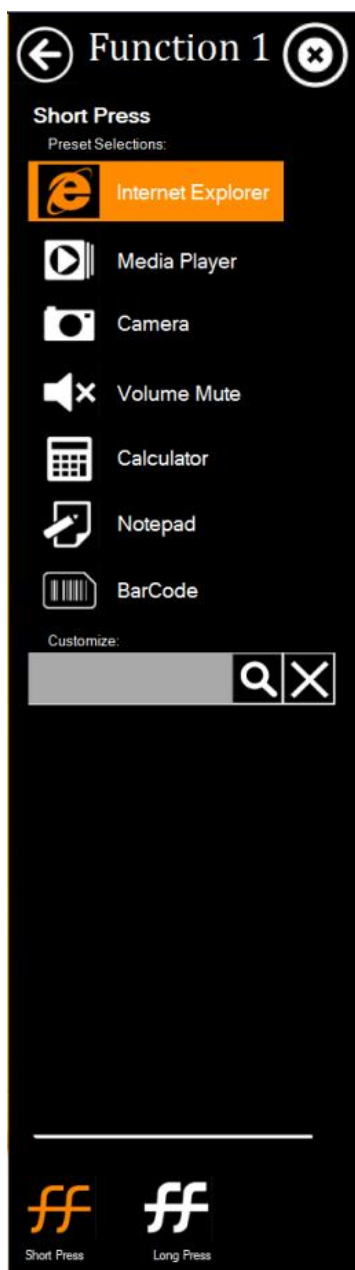


	Shortcuts button allows users to configure short cut to quickly access programs with a few tabs.
	Camera button allows users take a picture or record a video. User can also adjust setting related to camera in this menu option.
	Device button enables/disables tablet computer's hardware functions. The configurable functions are Wi-Fi, WWAN(3G/4G/LTE), GPS, Bluetooth, Camera, LED indicators, Barcode Reader, RFID Reader, Expansion Port, and GPS Antenna routing options.
	Setting button provides users information such as PC Information, Battery status, and also device settings such as power management setting, and function key mappings.

Using the physical function keys (Hotkeys)



The function key mapping menu option allows user to change the physical function buttons, Fn1 and Fn2. Users can change what application will be launched with short press or long press of keys.



To configure function key mapping, perform the following:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tap on the **Setting** button.
3. Tap on function key icon for the corresponding key that you want to change.
4. At top of utility, it will say "Short Press" or "Long Press" to indicate what type of press is being configured
5. You can switch what type of press you want to configure by tapping on the "Short Press" or "Long Press" icon at the bottom of the utility window.
6. Pick from list of preset applications by tapping on the application icons OR customize which application to execute using the picker.

Using the Custom picker:

1. Tap the  icon to reveal browser window
2. Navigate to the desired executable to map to function key
3. Tap on "Done" to save selection.

To map the function key to another application:

1. Tap on the  icon to remove connection to the original application, and pick again tapping on  icon.

Using the physical function keys:

1. While operating the tablet, click on the physical function keys to activate functions mapped via the setup in this section.

Using the Wireless LAN (Wi-Fi) feature

To use the wireless LAN (Wi-Fi) feature to connect to the network, perform the following procedure:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **Wi-Fi** icon:

Item	Status Color	Description
	Orange	Wi-Fi is enabled.
	White	Wi-Fi is disabled.

4. If the Wi-Fi feature is disabled (white), tap on the Wi-Fi icon to enable it (orange).
5. Click the wireless network connection status icon in the Windows notification area. A list of available wireless networks is displayed.
6. Double-click a network to connect to it. Provide required authentication information if needed.
7. To check the connection status, observe wireless network connection status icon in the Windows notification area. The more bars the icon shows, the better the wireless LAN connection strength is.
8. Now wireless LAN connection is setup, try connection to the network with a internet browser such as Internet Explorer.

Using the Wireless WAN feature

For tablets equipped with wireless WAN (3G or 4G/LTE) card, to use the wireless WAN feature to connect to the network, perform the following procedure:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **WWAN** icon:

Item	Status Color	Description
	Orange	WWAN (3G/4G) is enabled.
	White	WWAN (3G/4G) is disabled.

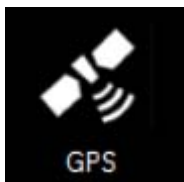
4. If the WWAN feature is disabled (white), tap on the WWAN icon to enable it (orange).
5. You can check the wireless WAN connection status through the wireless network connection status icon in the Windows notification area. The more bars encompassed, the better the signal is.

Note: For the Windows 7 operating system, you also can check the Access Connections gauge, the Access Connections status icon, or the Access Connections wireless status icon in the Windows notification area.

Using the GPS feature

To enable the wireless GPS feature, perform the following procedure:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **GPS** icon:

Item	Status Color	Description
	Orange	GPS is enabled.
	White	GPS is disabled.

4. If the GPS feature is disabled (white), tap on the GPS icon to enable it (orange).
5. Now the GPS feature is ready to be used with an application utilizing the GPS.

Using the Bluetooth feature

To enable the wireless Bluetooth feature, perform the following procedure:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **Bluetooth** icon:

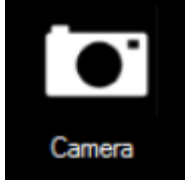
Item	Status Color	Description
	Orange	Bluetooth is enabled.
	White	Bluetooth is disabled.

4. If the Bluetooth feature is disabled (white), tap on the Bluetooth icon to enable it (orange).
5. Click the Bluetooth icon in the Windows notification area. A contextual menu for Bluetooth is displayed.
6. To add a device, tap on Add a Bluetooth Device. Windows will search any Bluetooth device automatically
7. Choose the Bluetooth device that user wants to connect and follow onscreen prompt to continue the pair procedure and use the Bluetooth device.

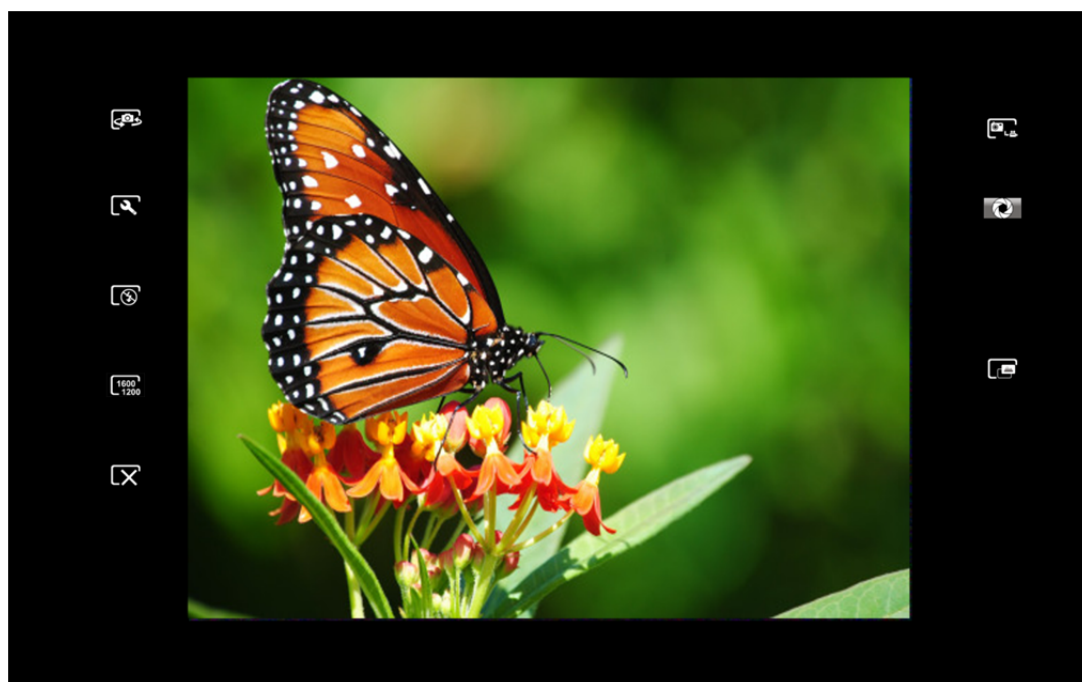
Using the Camera feature

This HotTab menu option allows users take a picture or record a video. Before use, make sure the Camera is turned on under Devices menu option following the following procedure:

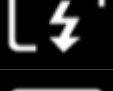
1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **Camera** icon:

Item	Status Color	Description
	Orange	Camera is enabled.
	White	Camera is disabled.

4. If the Camera feature is disabled (white), tap on the Camera icon to enable it (orange).
5. Go back to the HotTab main menu by pressing the  (Menu) Button located on the front panel OR click on the back arrow on top.
6. Tap on the **Camera** icon to go into the Camera menu. The Camera user interface will take up the entire screen as shown below:



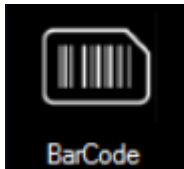
Description of Camera User Interface Buttons:

No	Item		Description
1	Camera Switch		Switch between front camera or rear camera.
2	Settings		Brings up Camera settings page. Available Settings: • Picture Save: modify/inspect saved location for pictures. • Video Save Folder: modify/inspect saved location for video recordings. • Picture Quality: Picture compression quality.
3	Flash Control		Disables LED Flash when taking picture.
			LED flash fires regardless of condition when taking pictures.
			LED Flash fires automatically in low light condition when taking pictures.
4	Resolution		Pictures will be saved at resolution of 640 x 480 .
			Pictures will be saved at resolution of 1024 x 768 .
			Pictures will be saved at resolution of 1600 x 1200 .
			Pictures will be saved at resolution of 2592 x 1944 .
5	Exit		Exits the Camera and hide HotTab Utility.
6	Picture/Video Mode Switch		Switches between picture taking or video recording.
7	Shutter/Record (automatically switch base on mode)		Camera Shutter Button. Tap to take picture.
			Video Record Button. Tap to Start, and press again to stop recording.
8	Open Saved Location		Opens the location where pictures and videos are saved in a window.

Using the Barcode Reader feature

To enable the Barcode Reader feature, perform the following procedure:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **BarCode** icon:

Item	Status Color	Description
	Orange	Barcode Reader is enabled. Reading will need to be triggered manually thru Fn button.
	White	Barcode Reader is disabled.

4. If the Barcode Reader feature is disabled (white), tap on the BarCode icon to enable it (orange).
5. Set either the Fn1 or Fn2 physical function keys to trigger the Barcode (See **Using the physical function keys** section to learn how to setup the function keys).
6. Open the application where barcode reader will be displaying the scanned barcode.
7. Trigger the Barcode by pressing function keys set in the above steps.

Using the RFID Reader feature

To enable the RFID Reader feature, perform the following procedure:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tap on the **Device** button.
3. Check the status color of the **RFID** icon:

Item	Status Color	Description
	Orange	RFID Reader is enabled. Reading will occur without trigger.
	White	RFID Reader is disabled.

4. If the RFID Reader feature is disabled (white), tap on the RFID icon to enable it (orange).
5. Set either the Fn1 or Fn2 physical function keys to trigger the RFID Reader (See **Using the physical function keys** section to learn how to setup the function keys).
6. Open the application where RFID reader will be displaying the scanned RFID tag.
7. Trigger the RFID Reader by pressing function keys set in the above steps.

Configuring High Resolution Screen Scaling and Setting

The M101's 1920 x 1200 high resolution display is perfect for viewing image, video, or other applications, however, Windows user interface (icons, buttons, and other user interface elements) may be too small to read and operate at the default Windows settings. By changing the display scaling or the display resolution setting of the device, you can adjust the size of the text and other items on the desktop for optimal viewing. Display scaling is the recommended method because it has the effect of adjusting user interface element without having to move away from the optimal resolution setting at 1920 x 1200. This section will explain how you can adjust the built-in windows display scaling setting and resolution setting.

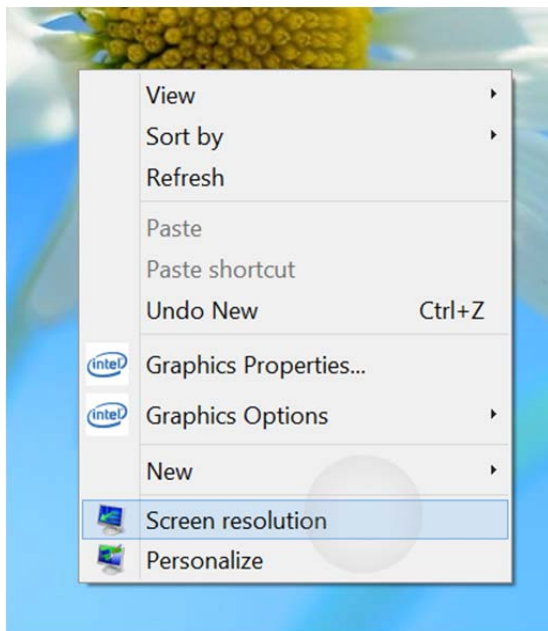
Note:

- M101 is shipped with display scaling set at **Larger - 150%**. We recommend the users set the scaling to this setting for optimal text and image viewing.
- Before proceeding to change the scaling option, make sure any opened document is saved and close, and all running applications are closed before proceeding to change the display scaling, because this procedure requires users to log out of their account to apply display scaling change.

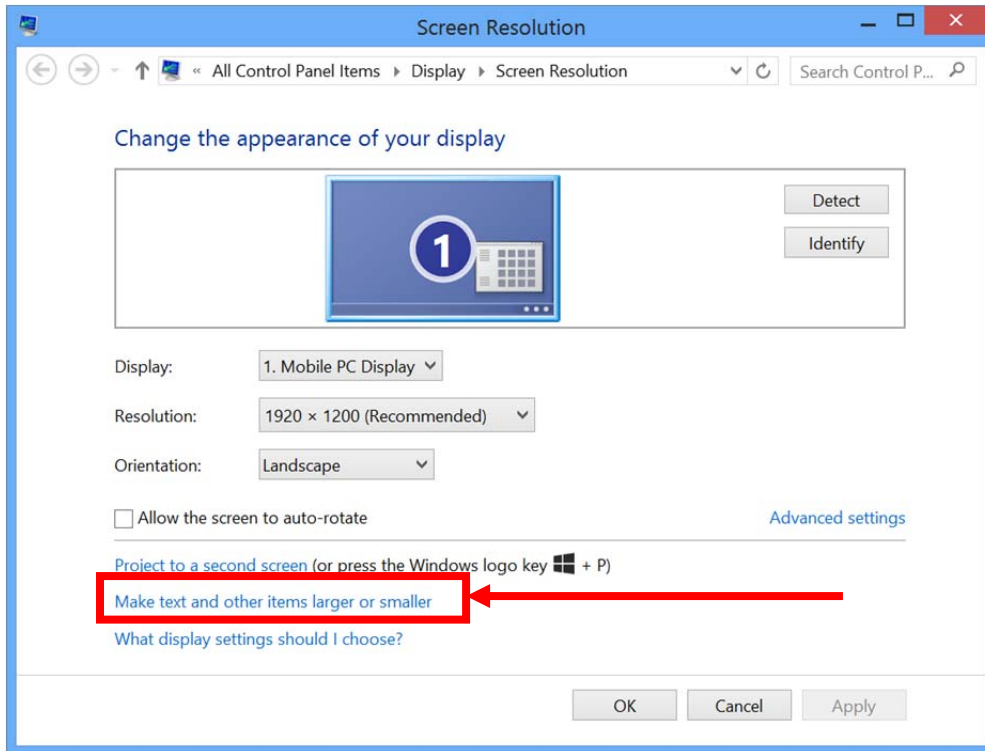
Changing display scaling setting (Recommended)

Perform the following to change display scaling setting:

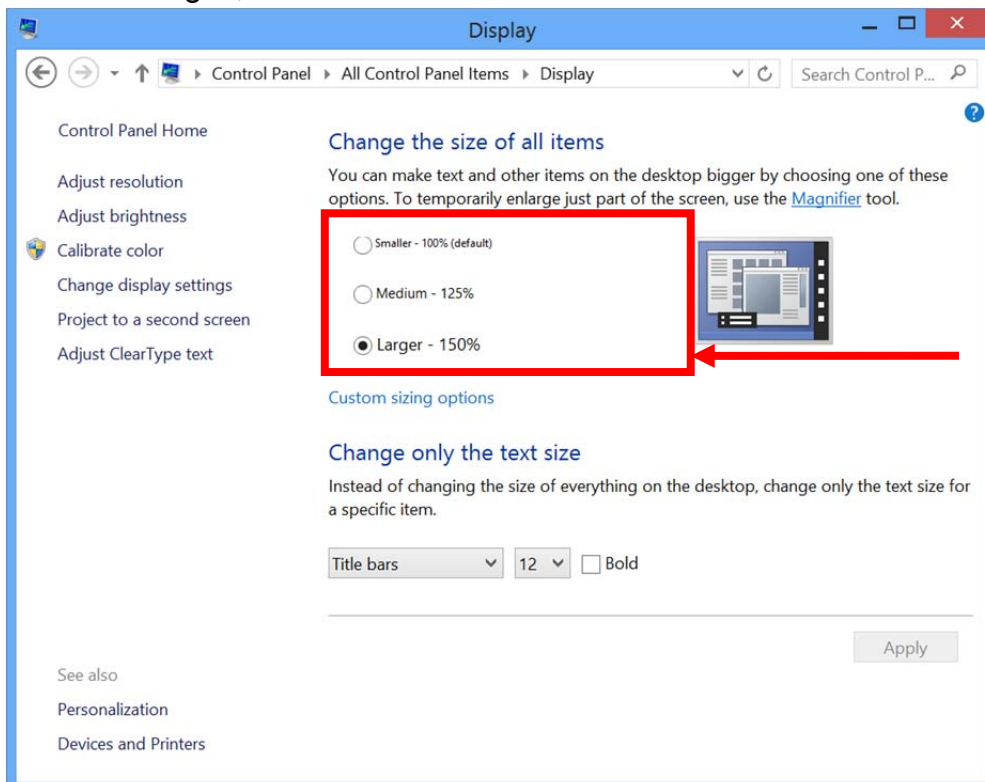
1. Tap and hold anywhere on the desktop for 3 seconds and release to bring up the context menu, and select "Screen resolution" option as shown below:



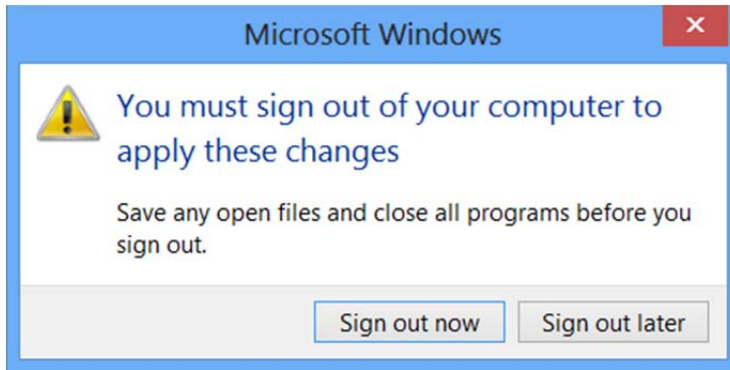
2. A “Screen Resolution” Window will show up. Select the “**Make text and other items larger or smaller**” option in the window, as shown below:



3. A “Display” window will show up. Under “**Change the size of all items**” section, change the scaling option to “**Larger – 150%**” or any other desired display scaling and hit “**Apply**” to save changes, as shown below:



4. A prompt may show up to ask if you want to sign out to apply the scaling change. Hit **“Sign out Now”** to apply changes, as shown below:

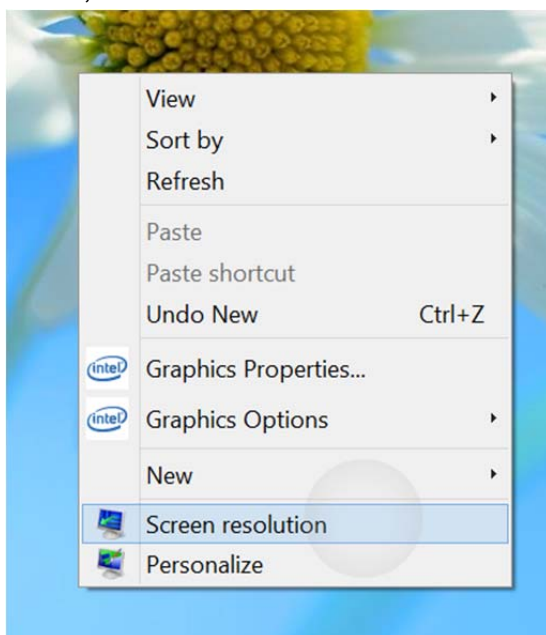


5. The user may now login again to Windows to see the changed display scaling already being applied.

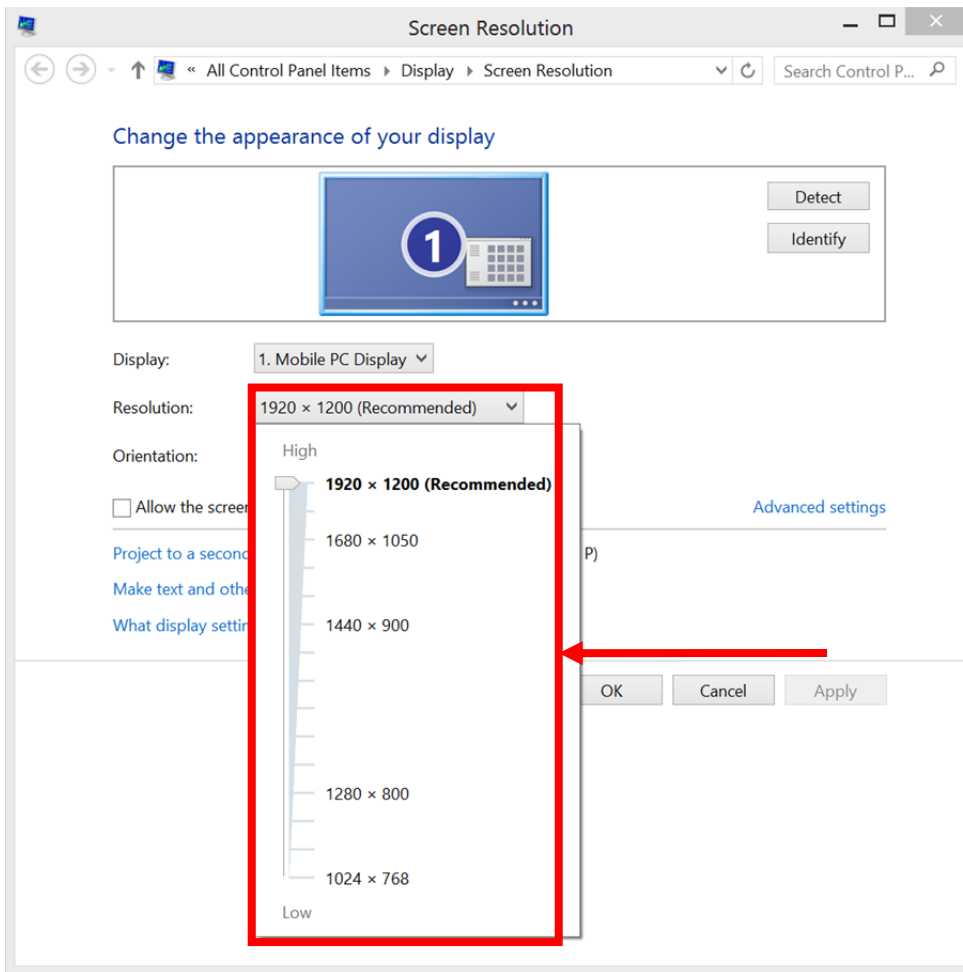
Changing screen resolution setting

Alternatively, instead of changing the display scaling setting, user may chose to change the overall resolution setting to make screen elements bigger.

1. Tap and hold anywhere on the desktop for 3 seconds and release to bring up the context menu, and select **“Screen resolution”** option as shown below:



2. Click on the dropdown option next to “**Resolution**” and select the desired resolution by tapping on the scale:

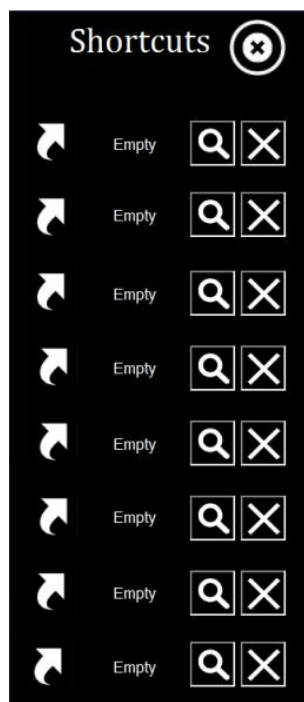


3. Hit “**Apply**”. A prompt “**Display Settings**” prompt will show up to ask the user if the applied resolution is usable.
4. If the new resolution is the desired display setting hit “**Keep changes**” and continue to next step. If the new resolution is not desirable, hit “**Revert**” and select a different resolution to change to, and start again from step 2.
5. The user may now use the device with the new resolution setting.

Using the HotTab Shortcuts (On-screen Software Shortcut)

The HotTab shortcuts are user configurable on-screen software short cuts via HotTab to allow users to have to quickly access programs with a few tabs. The Shortcuts menu offers 8 empty slots to store user's desired quick access. Shortcuts can be mapped to any of the executable files (.exe) installed on the tablet.

Short Cut Menu:



To store a new shortcut:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tab on the **Shortcuts** button.
3. Tab on  button of any empty slot.
4. An on screen file browser will appear.
5. Browse to find the desired application to have shortcut.
6. Click "Open" to save the shortcut.

To remove an saved shortcut:

7. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
8. Tab on the **Shortcuts** button.
9. Tab on the  button of any saved slot to remove
10. Shortcut will be removed, and once again show "Empty" to indicate slot is empty.

Tab on the  button will hide the HotTab Utility Menu.

Using the HotTab shortcuts:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tab on the **Shortcuts** button.
3. Tab on the saved shortcut items to access the saved programs.

Accessing the Device Information (HotTab Setting)

This HotTab menu option provides users information such as PC Information, Battery status, and also device settings such as power management setting, and function key mappings. Perform the following procedure to access the HotTab Setting menu:

1. Open the HotTab utility by press the  (Menu) Button located on the front panel, OR launching the HotTab Utility application.
2. Tap on the **Settings** button.
3. Below shows the items listed in Settings Menu.

PC Information:

PC Information
BIOS Ver.: V108 EC Ver.:101
HotTab Ver.: M101_A40.1.05
OS Ver.:
Units SN: To be filled by O.E.M.

This section provides user device information in regards to BIOS Version, EC Versions, HotTab Versions, OS Versions, as well as Unit Serial Number, shown in the picture sample.

Battery Information:

Battery Information

Main	BackUp
	
100 %	Medium
BAT1ChargeTime: 0 h	

This section provides user battery Information.

Main Battery:

The main battery Icon displays the battery level in percentages (0 to 100%).

Backup Battery: (Optional)

The backup battery used for battery hot swapping displays its state in text with the following meanings.

Status	Description
High	Backup battery is fully charged, and can be used for hot swapping
Medium	Backup battery level is intermediate, but can be used for hot swapping
Low	Backup battery level is low, and hot swapping is not recommended.

Battery Charge Time:

The Battery Information also displays estimated time needed to fully charge the main battery when AC adapter is plugged in. Meanwhile, the backup battery is charged by the main battery.

Replacing Hot Swappable Battery

The tablet computer supports hot-swapping of batteries, meaning the tablet doesn't need to be powered off in order to replace the main battery. To support such mechanism, there is a backup battery inside the tablet that is charged up with the main battery. This backup battery cannot be removed, and needs to have adequate power for hot swapping of main battery to be done without issue. When the backup battery is fully charged, it can sustain up to 5 minutes of runtime to allow for battery hot-swapping.

Perform the following to hot swap the batteries:

1. While the tablet is powered on, go to HotTab utility to check on the power level of the Backup battery.
2. If the Backup battery level is at "Low", please charge the tablet with AC Power until the Backup battery level is at "Medium" or "High", and do not remove the main battery.
3. If the Backup battery level is at "Medium" or "High", continue to remove the main battery.
4. Insert a new charged up removable battery into the battery compartment.
5. Go to HotTab utility to check if Main battery level can be correctly read. If not, check if the new removable battery is inserted properly.
6. If Main battery level can be read, continue to use the tablet computer.

Setting up the Barcode Scanner Configuration

For M101 tablet computer equipped with the optional barcode scanner, this section of user manual explains how the barcode scanner can be configured differently via software (Intermec EasySet) to read different standards of barcode types. The barcode scanner is configured with Intermec EasySet application. The latest version can be downloaded at the following link:

http://intermec.custhelp.com/app/answers/detail/a_id/5760

Barcode Scanner Configuration Instruction

In order to configure the barcode scanner, the tablet device needs to be restarted to reset the hardware devices on-board to allow for configuration.

Note:

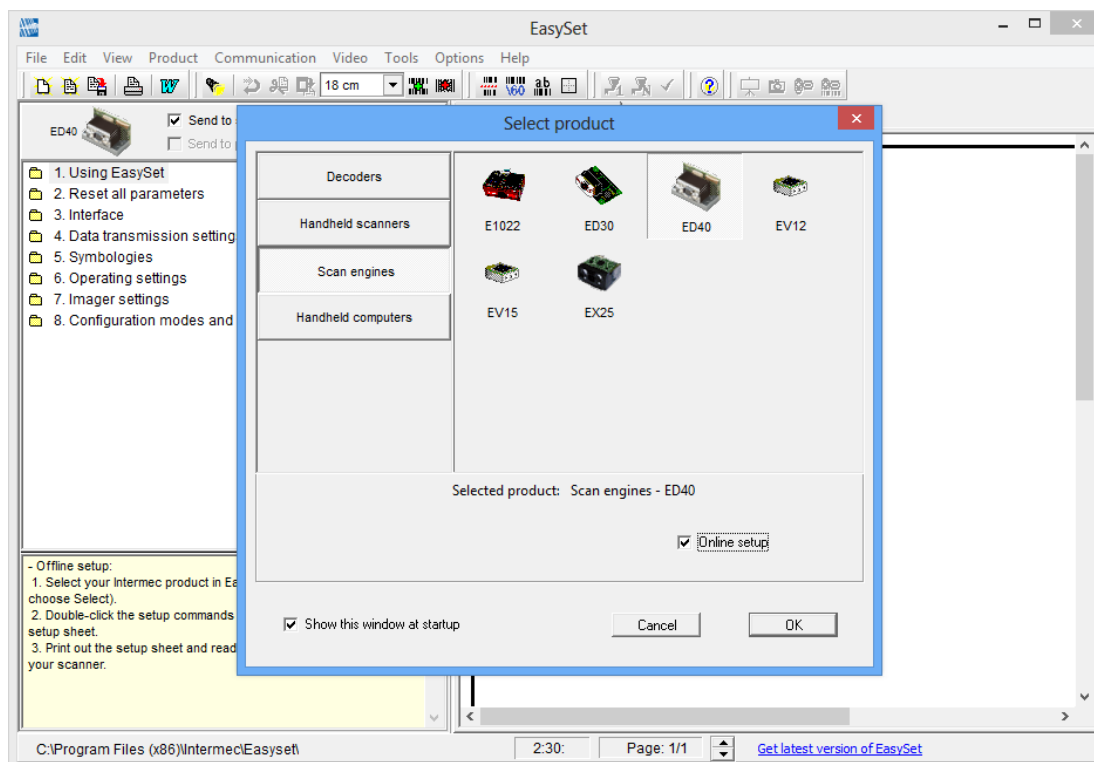
- Throughout the barcode scanner configuration, **DO NOT** try and trigger the barcode scanner by press the **Function** button on the device. Doing so will prevent the barcode scanner from being correctly configured.

Perform the following to configure barcode scanner for different code types:

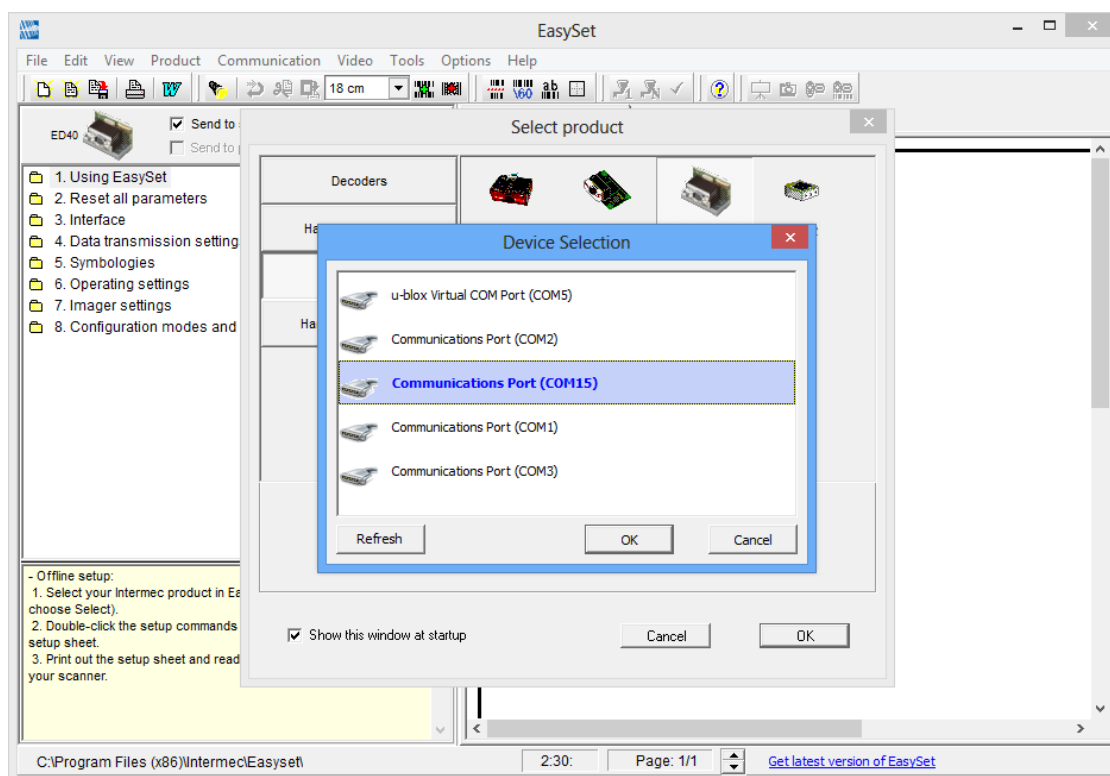
1. Turn-off all the running applications and restart the tablet.
2. Once the tablet boots up, wait for the HotTab utility to start up.
3. Open HotTab utility, and tap on the “**Device**” icon.
4. Turn on the “**Barcode**” device by tapping on the Icon. Make sure the “**Barcode**” icon is orange to indicate barcode scanner is on. **DO NOT** try and trigger the barcode scanner by press the **Function** button on the device at this point. Doing so will prevent successful configuration.
5. Execute the “**Easysset**” barcode scanner configuration application by tapping on its icon:



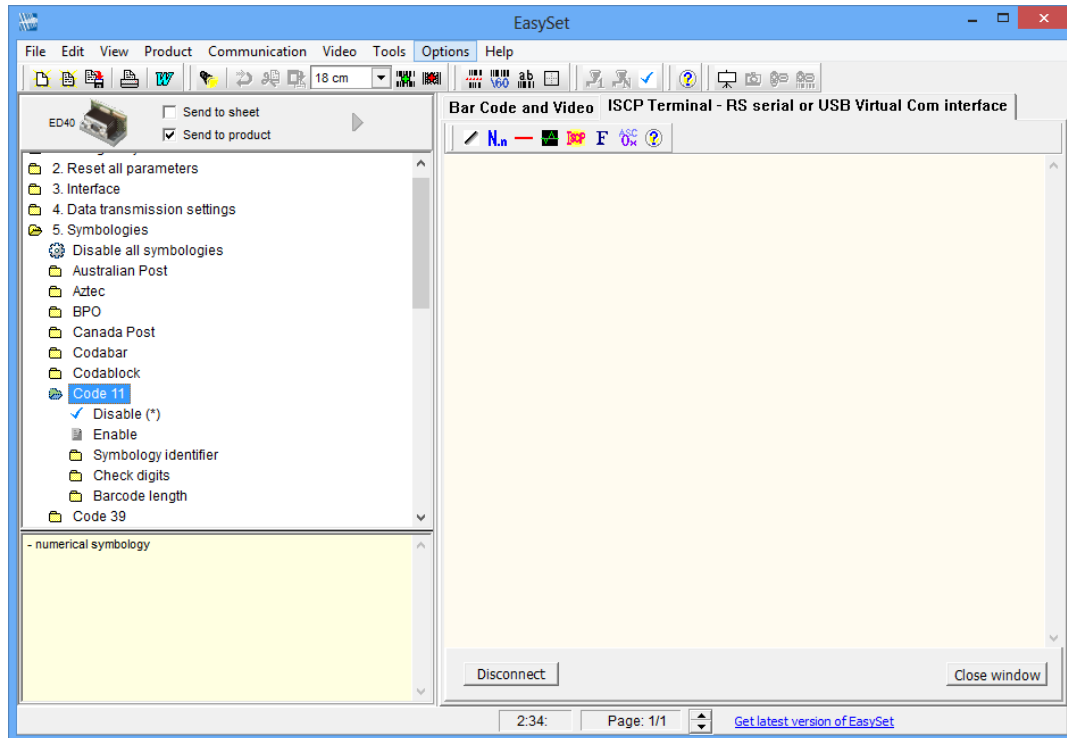
6. When “**Easyset**” application launches, a “**Select product**” on-screen prompt will show up. Select “**Scan engines**” and pick “**ED40**”. Make sure the “**Online setup**” option is checked, and select “**OK**” as shown in the screen capture below:



7. Another “**Device Selection**” on-screen prompt will show up. Select “**Communications Port (COM15)**” and select “**OK**” as shown in the screen capture below:



8. At this point, the barcode scanner device is selected and next step is barcode code type selection.
9. On the navigation pane on the left, select the option “**5. Symbolologies**”. A full list of available code types will be listed in this navigation pane.
10. Navigate to the code type of interest and double click to show its configuration options as shown in the screen capture below (i.e. screen capture selects code type “Code 11”):



11. Double click on “**Enable**” to enable the code type for barcode scanner or double click on “**Disable**” to disable the code type for barcode scanner.
12. Go through the entire code type list and enable/disable each barcode code type of interest.
13. Once all the code types of interest are configured, close the “**EasySet**” application to finish barcode scanner configuration.

Note:

For more information on how to use the “**EasySet**” application, please refer to the complete EasySet User Manual from Intermec: http://intermec.custhelp.com/app/answers/detail/a_id/5760

Using Recovery Wizard to Restore Computer

The M101B tablet computer has a dedicate recovery partition stored on the hard drive of the tablet to enable quick one-key recovery process. This partition occupies about 11GB of the storage space, and comes built-in to each M101B tablet computer.

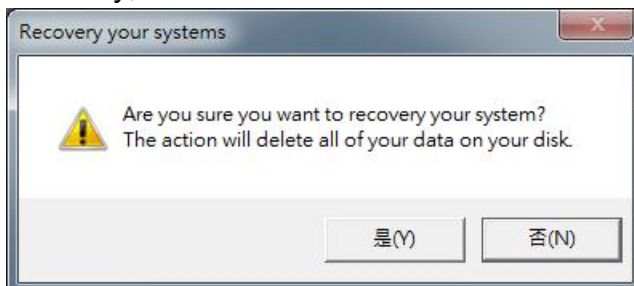
Warning: Before starting the recovery process, be sure to backup all user data, as all data will be lost after the recovery process.

Follow the procedure below to enable quick one-key recovery procedure:

1. Plug-in the AC adapter to M101B tablet computer. Make sure the M101B tablet computer stays plugged in to power source during the recovery process.
2. Turn on the tablet computer, and when the boot screen shows up, press the **Fn1** button (Recovery Key) on the front bezel OR press **F6** when using an external USB keyboard to initiate the Recovery Wizard.
3. The following screen shows the Recovery Wizard. Click on "Recovery" button to continue.



4. A warning message about data loss will show up. Make sure data is backed up before recovery, and click on "Yes" to continue.



5. Wait till the recovery process to complete. During the recovery process, a command prompt will show up to indicate the percent of recovery process. After recovery is completed, and the tablet computer will restart automatically.



Accessories

M101 offers the following optional accessories that can be purchased:

Gigabit Ethernet Adapter - For LAN from 30-pin extension port - Length; 10 cm - Connector: RJ45, female - Gigabit LAN, 10/100/1000 Mbps	RS232 Ethernet Adapter - For RS232 from 30-pin extension port - Length:10 cm - Connector: DB9 Serial RS232 Cable, female
High Capacity Battery - Capacity: 7.4V 10600mAh (2S2P) - Li-Polymer Battery	Hand Strap Ergonomic hand-strap can help you handle the Rugged Tablet PC much more easily and comfortably.
Charging Cart - Charge max up to 32 pcs of tablet PC at the same time - Lockable doors and casters design for security and safety	Vehicle Charger - Rapidly charges your M101 tablet PC in your car while you drive - Length: 3m
Mobile Power Station - Model Name: M44BW-100 8.4/12/16/19V DC out - Capacity: 8800mAh	Bluetooth Keyboard Black style Bluetooth 3.0 Keyboard
Desk Docking - USB 2.0 x 4 (Rear x2, Side x2) - LAN (10/100) / VGA / RS232 9-36V DC IN with 3-pin terminal block	Vehicle Docking - VESA Mounting support - USB 2.0 x 4 (Rear x2, Bottom x2) - LAN (10/100) / RS232 - Optional VGA output - GPS ANT SMA x 1 9-36V DC IN with 3-pin terminal block - Easy insert and release with Key-Lock

Chapter 5: Troubleshooting

Troubleshooting (Basic)

Problem	Solution
The removable battery is not charging.	• Make sure the AC adapter is properly connected, and that the removable battery is properly inserted.
Nothing appears on the screen.	• The tablet computer may be in sleep mode. Press the power button to wake up the display. • The brightness level may be too low. Increase brightness.
The screen suddenly turns blank and the power indicator goes off.	• Make sure that LED indicator is not turned off in HotTab. • Make sure the AC adapter is properly connected. • If running on battery power, the battery may be depleted, charge the battery.
Wireless LAN signal quality is poor.	• The tablet computer may be out of range. Move the tablet computer closer to the access point or another wireless LAN device associated with it. • Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.
I cannot connect to another wireless LAN device.	• Make sure that wireless LAN feature is turned on. • Make sure that the SSID setting is the same for every wireless LAN device in the network. • Restart the tablet computer • Make sure the IP address or subnet mask setting is correct.
I cannot connect to another device with Bluetooth.	• Make sure that both devices have Bluetooth turned on (For the Tablet Computer, check HotTab to see if Bluetooth is turned on). • Make sure that the distance between the two devices is within 10 meters and there are no walls or large obstructions between the devices.

	• Make sure the both devices are turned on and configured to be discoverable. • Make sure that both devices are compatible.
The GPS application cannot find my location.	• Make sure that GPS is turned on in HotTab. • Make sure that GPS receiver and the location sensor are enabled in Control Panel. • The tablet computer may be out of coverage area. Move your tablet computer outdoors or closer to a window. • Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.
No sound is produced.	• Adjust volume of the tablet computer by pressing on the volume rocker. • If using an external audio device, make sure that the cable is properly connected.
I cannot project the tablet computer display to another monitor.	• Make sure the VGA driver is installed. • Make sure the output setting selected is correct.
Barcode scanner does not emit laser beam and does not seem to work.	• Make sure the Barcode scanner device is enabled in HotTab utility. • Make sure under Windows, the Barcode Reader is set to COM 15 port, so that HotTab can trigger the Barcode Reader hardware.
Barcode Scanner emits laser beam but does not read barcode presented to it.	• Adjust the distance between barcode scanner of the device and the barcode being scanned. • Make sure the barcode code type is enabled in the tablet. To enable/disable a specific barcode code type, go through the "Barcode Scanner Configuration" section.
I am having GPS accuracy issue	• When utilizing the GPS function, we recommend disabling the Barcode Reader in Hottab to reduce interference.
RFID scanner does not seem to work.	• Make sure under Windows, the RFID hardware is set to COM 3 port.

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